

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

## APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1A. Type of Work

DRILL ☒DEEPEN ☐

B. Type of Well

OIL ☐GAS ☒OTHER: ☐SINGLE ZONE ☐MULTIPLE ZONE ☐

2. Name of Operator:

Coastal Oil &amp; Gas Corporation

3. Address and Telephone Number:

P.O. Box 1148, Vernal UT 84078

(435)-781-7023

4. Location of Well (Footages)

At surface:

2500' FSL &amp; 2220' FWL

At proposed proding zone:

4424671 N  
635970 E

14. Distance in miles and direction from nearest town or post office:

28.5 Miles Southwest of Ouray, Utah

15. Distance to nearest property or lease line (feet):

1200'

16. Number of acres in lease:

1674.49

17. Number of acres assigned to this well:

1674.49

18. Distance to nearest well, drilling, completed, or applied for, on this lease (feet):

Refer to Topo "C"

19. Proposed Depth:

9300

20. Rotary or cable tools:

Rotary

21. Elevations (show whether DR, RT, GR, etc.):

5123.8' Ungraded GR

22. Approximate date work will start:

Upon Approval

23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
11"	8 5/8" J-55	32#	2000'	520 sx
7 7/8"	4 1/2" P-110	11.6#	9300'	2160 sx

DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

Coastal Oil & Gas Corporation is considered to be the operator of the subject well. Coastal Oil & Gas Corporation agrees to be responsible under terms and conditions of the lease for the operations conducted upon lease lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Coastal Oil & Gas Corporation Bond #102103, and BLM Nationwide Bond #U-605382-9.

24.

Cheryl Cameron

Title: Sr. Regulatory Analyst

Date: 9/21/00

(This space for State use only)

API Number Assigned:

43047-33707

Approval:

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date:

By:

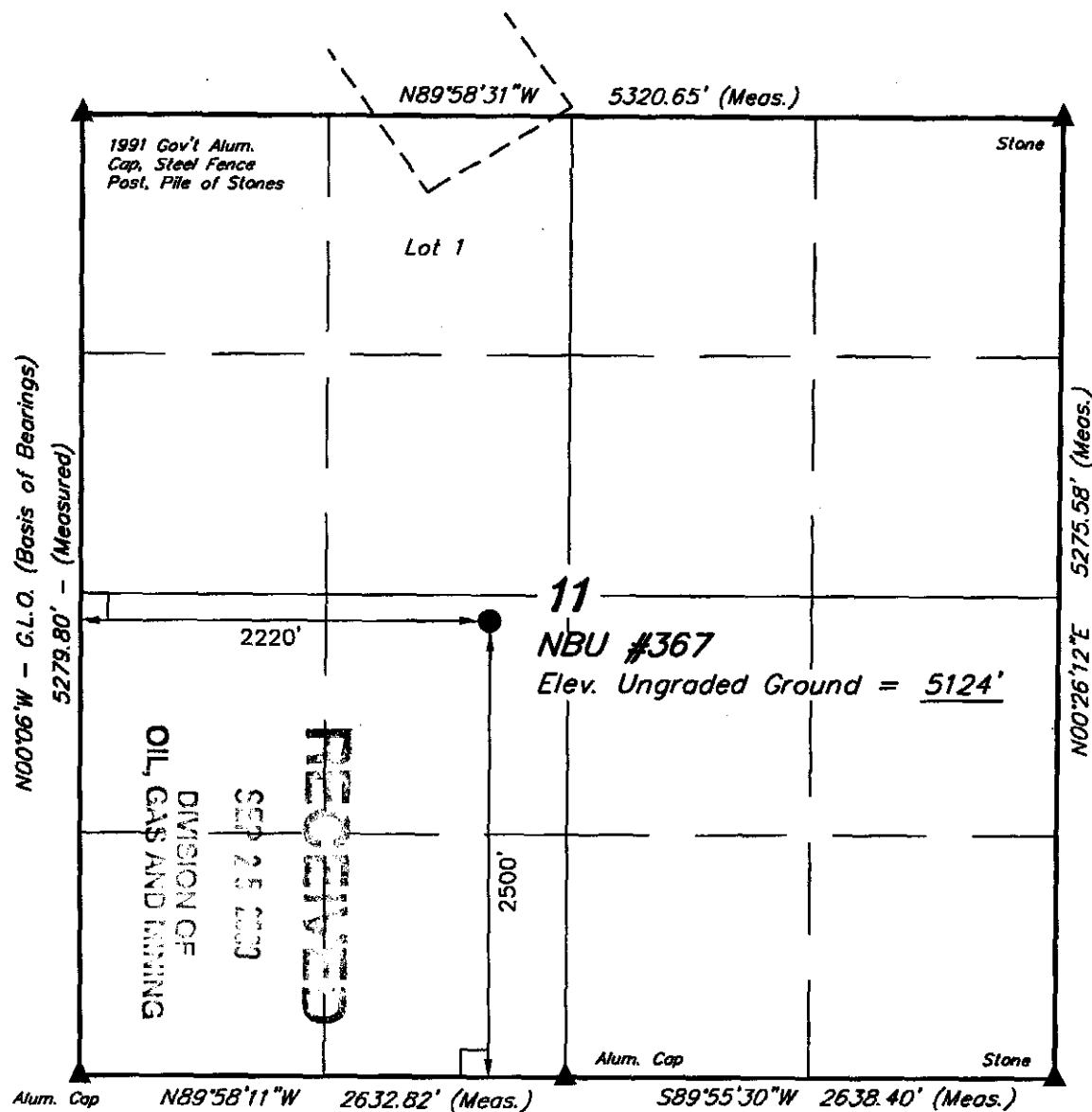
(See Instructions on Reverse Side)

RECEIVED

SEP 25 2000

DIVISION OF  
OIL, GAS AND MINING

T10S, R22E, S.L.B.&M.



**LEGEND:**

- = 90° SYMBOL
- = PROPOSED WELL HEAD.
- = SECTION CORNERS LOCATED.

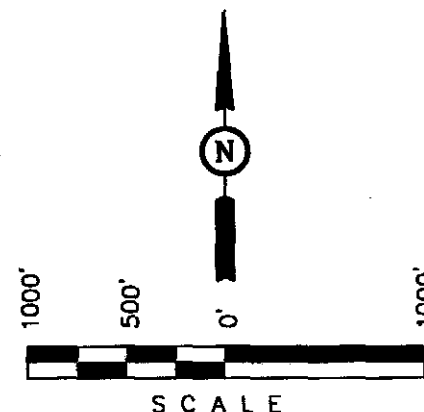
LATITUDE = 39°57'47"  
LONGITUDE = 109°24'29"

**COASTAL OIL & GAS CORP.**

Well location, NBU #367, located as shown in the NE 1/4 SW 1/4 of Section 11, T10S, R22E, S.L.B.&M., Uintah County, Utah.

**BASIS OF ELEVATION**

TWO WATER TRIANGULATION STATION LOCATED IN THE NW 1/4 OF SECTION 1, T10S, R21E, S.L.B.&M. TAKEN FROM THE BIG PACK MTN NE QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5238 FEET.



**CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME AND UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

*Robert A. [Signature]*  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 161319  
STATE OF UTAH

**UINTAH ENGINEERING & LAND SURVEYING**  
85 SOUTH 200 EAST - VERNAL, UTAH 84078  
(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 07-20-00	DATE DRAWN: 07-25-00
PARTY B.B. T.A. D.R.B.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE COASTAL OIL & GAS CORP.	

# **H<sub>2</sub>S Contingency Plan**

for

**NBU #367**

Section 11, Township 10S, Range 22E

Uintah County, Utah

Prepared for:

**Coastal Oil & Gas Corporation**

1368 South 1200 East

P.O. Box 1148

Vernal, UT 84078

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## Introduction

It is the policy of Coastal Oil & Gas Corporation to provide a safe and healthful work environment for all of its employees as well as contractors that may work on Coastal leases. Coastal Oil & Gas Corporation makes a continued effort to comply with laws and regulations relative to worker health and safety, and to manage all operations in a manner to reduce risk.

The following is a H<sub>2</sub>S contingency plan for the Coastal NBU #367 well. The plan is designed specifically for personnel working on this project and provides detailed procedures to follow in case of an accidental release of hydrogen sulfide. *In order for the plan to be effective, all personnel must review and be familiar with their responsibilities as well as the safety equipment involved.*

The purpose of this plan is to act as a guideline for personnel working on the wellsite in the event of a sudden release of hydrogen sulfide. All personnel working on the wellsite as well as service personnel that may travel to location on an unscheduled basis must be familiar with this program. The cooperation and participation of all personnel involved with the drilling operation is necessary for this plan to be effective.

## **1. Responsibilities and Duties**

In order to assure proper execution of the contingency plan, it is essential that one person be responsible for and in complete charge of implementing the procedures outlined in this plan. The order of Responsibility will be as follows:

1. Coastal Oil & Gas Corporation drilling representative on location - if unable to perform his / her duties
2. Alternate Coastal Oil & Gas Corporation representative - if unable to perform his / her duties
3. Rig Toolpusher / Supervisor - if unable to perform his / her duties
4. Safety consultant representative - if available

### **A. All Personnel**

1. Always be alert for possible H<sub>2</sub>S alarms - both audible and visual.
2. Be familiar with location of Safe Briefing Areas (SBA) and protective breathing equipment.
3. Develop a "wind awareness". Be aware of prevailing wind direction as well as nearby uphill areas, should there be no wind.
4. Familiarize yourself with nearest escape routes for safe evacuation.
5. Should H<sub>2</sub>S alarms sound, DON'T PANIC - Remain calm and follow the instructions of person in charge.
6. If the H<sub>2</sub>S alarms sound:
  - a. Essential personnel shall don the appropriate respiratory protective equipment and follow company procedures. Essential personnel will continue to wear respiratory protective equipment until the area is deemed safe (H<sub>2</sub>S concentration less than 10 PPM)
  - b. Non-essential personnel shall evacuate to the appropriate safe briefing area using escape breathing systems. Wait there for further instructions from the Coastal drilling representative.

- c. Initiate rescue protocol if necessary, following training procedures.

## **B. Drilling Foreman**

2. The Coastal drilling foreman will confirm that all personnel on location are trained in H<sub>2</sub>S safety and aware of the above list of duties at the point in time when the H<sub>2</sub>S plan becomes effective at 300 feet above the Uintah Formation.
2. The Coastal foreman will ensure that all safety and emergency procedures are observed by all personnel.
3. The Coastal foreman will make an effort to keep the number of personnel on location to a minimum and to ensure that only essential personnel are on location during critical operations.
4. Should any extreme danger condition exist, the Coastal foreman will:
  - b. Assess the situation and advise all personnel by appropriate means of communication.
  - b. Be responsible for determining that the extreme danger condition is warranted and the red flag shall be posted at location entrance.
  - c. Go to safe briefing area and give clear instructions relative to the hazard on location, and actions for personnel to follow.
  - d. Notify company and regulatory groups of the current situation as outlined in company protocol.
  - e. Proceed to the rig floor and supervise operations with the Rig Supervisor. Take action to control and reduce the H<sub>2</sub>S hazard.
  - f. Ensure that essential personnel are properly protected with supplied air breathing equipment and that non-essential personnel are in a "poison gas free" area.
  - g. Be responsible for authorizing evacuation of persons / residents in the area surrounding the drilling location.
  - h. Commence any ignition procedures if ignition criteria are met.

### **C. Rig Supervisor - Toolpusher**

3. If the Coastal Drilling Foreman is unable to perform his / her duties, and the alternate Drilling Foreman is also unable or unavailable to perform his / her duties, the drilling rig Toolpusher will assume command of wellsite operations and all responsibilities listed above for drilling foreman.
2. Ensure that all rig personnel are properly trained to work in H<sub>2</sub>S environments and fully understand the purpose of the H<sub>2</sub>S alarms and actions to take when alarms activate. Ensure that all crew personnel understand the buddy system, safe briefing areas, and individual duties as well as emergency evacuation procedures.
3. Should an extreme danger operational condition arise, the rig Toolpusher shall assist the Coastal foreman by:
  - c. Proceeding to the rig floor and assist in supervising rig operations.
  - b. Ensure that only essential working personnel remain in hazardous areas.
  - c. Ensure that all crew members that remain in hazardous area wear respiratory protective equipment until notified that area is "clear" of any toxic gases.
  - d. Assign rig crew member or other service representative to block the entrance to location. No unauthorized personnel will be allowed entry to location.
  - e. Help to determine hazardous "danger zones" on location using portable detection equipment and position electric fans to move gas in any high concentration areas.

### **D. Safety Consultant**

4. During normal operations (no H<sub>2</sub>S present), the Safety Consultant will be responsible for the following:
  - d. Ensure that all wellsite safety equipment is in place and operational.
  - b. Ensure that all wellsite personnel are familiar with the location safety layout and operation of all safety equipment.

- c. Assist the Coastal foreman in performing weekly H<sub>2</sub>S drills for location personnel.
2. When an operational condition is classified as extreme danger, the Safety Consultant will be responsible for the following:
- e. Account for all wellsite personnel.
  - b. Assess any injuries and direct first aid measure.
  - c. Ensure that all safety and monitoring equipment is functioning properly and available.
  - d. Monitor the safety of wellsite personnel
  - e. Maintain a close communication with Coastal Foreman.
  - f. Be prepared to assist Coastal Foreman with support for rig crew or other personnel using breathing equipment.
  - g. Be prepared to assist Coastal Foreman with emergency procedures including possible well ignition.
  - h. Be prepared to assist with evacuation of any area residents or other personnel working in the immediate area.

## 2. Drilling Rig Layout

### E. Location

3. All respiratory protective equipment and H<sub>2</sub>S detection equipment will be rigged up 3 days or 500 feet prior to entering the first zone suspected to contain hydrogen sulfide. The rig crews and other service personnel will be trained at this time.
2. The drilling rig will be situated on location to allow for the prevailing winds to blow across the rig toward the circulation tanks or at right angles to the lines from the B.O.P.s to the circulation tanks.
3. The entrance to the location is designed so that it can be barricaded if a hydrogen sulfide emergency condition arises. An auxiliary exit route will be available so that in case of an emergency, a shift in wind direction would not prevent escape from the location.
4. A minimum of 2 safe briefing areas (SBA) shall be designated for assembly of personnel during emergency conditions. These will be located at least 150 feet, or as practical, from the wellbore and in such a location that at least one area will be upwind of the well at all times. Upon recognition of an emergency situation, all personnel will be trained to assemble at the designated briefing area for instructions.
5. Smoking areas will be established and "No Smoking" signs will be posted around the location.
6. Reliable 24 hour radio and telephone communications will be available at the Drilling Foremen's office.
7. A mud-gas separator will be rigged up and manifolded to the choke system.
8. All equipment that might come into contact with hydrogen sulfide, including drill pipe, drill stem test tools, blowout preventers, casing, and the choke system, will meet Coastal's metallurgy requirements for H<sub>2</sub>S service.
9. The drilling rig will have a continuous electronic H<sub>2</sub>S detection system that automatically will activate visible and audible alarms if hydrogen sulfide is detected. The visible light will activate if 10 PPM H<sub>2</sub>S is present. The audible siren will activate if 15 PPM or higher concentration is present. There will be at least 4 H<sub>2</sub>S sensors in place on the drilling rig. They will be located to detect the presence of

hydrogen sulfide in areas where it is most likely to come to the surface. The sensor head locations will be: 1) rig floor by driller's console, 2) substructure area near the bell nipple, 3) the shale shaker, 4) the mud mixing area. Additional sensors will be positioned at the discretion of the Drilling Foreman. At least 1 light and 1 siren will be placed on the rig to indicate the presence of hydrogen sulfide. The light and siren will be strategically placed to be visible to all personnel on the drill site. Additional alarm lights & sirens may be added to ensure that all personnel on the drill site are able to notice the alarms at any time.

10. The H<sub>2</sub>S detection equipment will be calibrated as recommended by the manufacturer. Calibration records will be maintained on location.
11. At least 4 windsocks will be placed around the drill site to ensure that wind direction can be readily determined by everyone on the drilling location. One windsock will be mounted on or near the rig floor to be readily visible to rig crews when tripping pipe.
12. All respiratory protective equipment will be NIOSH/MSHA approved positive pressure type and maintained according to manufacturer's guidelines. All breathing air used for this equipment will be CGA type Grade D breathing air. Battery powered voice mikes will be available for communication when wearing masks.
13. Both 30 minute self-contained breathing apparatuses (SCBA) and workline units with escape cylinders will be available on location. There will be sufficient numbers of this supplied air breathing equipment on location to ensure that all personnel on location have 1 piece of equipment available to them. All Respiratory protective equipment will use nose cups to prevent fogging in temperatures below 32 F. Spectacle kits will be available for personnel that require corrective lenses when working under mask.
14. Electric explosion-proof ventilating fans (bug blowers) will be available to provide air movement in enclosed areas where gas might accumulate.
15. H<sub>2</sub>S drills will be conducted at least weekly to ensure that all well site personnel are competent in emergency donning procedures. These drills will be recorded in the driller's log.

### **3. Safety Procedures**

#### **A. Training**

All personnel who come onto the drilling location must be properly trained in hydrogen sulfide, nitrogen, and oxygen deficient atmosphere safety. The personnel shall carry documentation with them indicating that the training has occurred within the previous 12 months.

Training topics shall include at a minimum:

1. Hazards and characteristics of hydrogen sulfide, nitrogen, and oxygen deficient atmospheres and symptoms of exposure to these gases.
2. Proper use, care and limitations of respiratory protective equipment with hands on practice.
3. Use of both fixed and portable toxic gas detection equipment.
4. Work practices to reduce opportunities for toxic gas exposure as well as confined space procedures.
5. First aid for toxic gas exposure and resuscitation equipment.
6. The buddy system
7. Emergency evacuation procedures
8. A review of the contingency plan for the well.

#### **B. Operating Conditions**

A three color flag warning system will be used to notify personnel approaching the drill site as to operating conditions on the wellsite. This system is in compliance with BLM Operating Order #6 and follows industry standards.

Green Flag - Potential Danger

Yellow Flag - Moderate Danger

Red Flag - Extreme Danger - Do Not approach if red flag is flying.



### C. Evacuation Plan

There are no permanent residents within a 1 mile radius of the drill site. Coastal Oil & Gas Corporation has operations within this area and travel the roads in the immediate area.

### D. Emergency Rescue Procedures

Wellsite personnel should not attempt emergency rescues unless they have been properly trained. A trained person who discovers another person overcome by hydrogen sulfide should **not attempt to rescue without donning the proper breathing equipment**. When making an emergency rescue always use the following procedures:

1. Don rescue breathing equipment before attempting to rescue someone.
2. Remove the victim from the contaminated area to an area free of toxic gas by traveling upwind or cross wind. Be certain that you are in a safe area before removing your breathing equipment.
3. If the victim is not breathing, initiate mouth - to - mouth resuscitation immediately. Follow CPR guidelines and replace mouth to mouth with a bag mask resuscitator if available.
4. Treat the victim for shock, keeping the victim warm and calm. Never leave the victim alone.
5. Any personnel who experience hydrogen sulfide exposure must be taken to a hospital for examination and their supervisor notified of the incident.
6. Their supervisor shall follow the company Emergency Preparedness plan.

#### **4. H<sub>2</sub>S Safety Equipment on Drilling Location**

<b>Item</b>	<b>Amount</b>	<b>Description</b>
1.	One (1)	Safety trailer with a cascade system of 10-300 cu. ft bottles of compressed breathing air complete with high pressure regulators.
2.	At least 1000 ft.	Low pressure airline equipped with Hansen locking fittings. This airline will be rigged up with manifolds to supply breathing air to the rig floor, substructure, derrick, shale shaker area, and mud mixing areas. Three high pressure refill hoses will be attached to cascade systems for cylinder refill.
3.	Twelve (12)	Scott 30 minute self contained breathing apparatuses (SCBA).
4.	Twelve (12)	Scott airline units with emergency escape cylinders.
5.	One (1)	4 - channel continuous electronic H <sub>2</sub> S monitor with audible and visual alarms. The set points for these alarms are 10 PPM for the low alarm and 15 PPM for the high alarm.
6.	Two (2)	Sensidyne portable hand operated pump type detection units with tubes for hydrogen sulfide and sulfur dioxide.
7.	One (1)	Oxygen resuscitator with spare oxygen cylinder.
8.	One (1)	Trauma first aid kit.
9.	One (1)	Stokes stretcher and one (1) KED.
10.	Four (4)	Wind socks.
11.	At least one (1)	Well condition sign with 3 flag system.
12.	Two (2)	Safe Briefing Area (SBA) signs.
13.	One (1)	Fire blanket.
14.	One (1)	Set air splints.

- |     |           |   |
|-----|-----------|---|
| 15. | Two (2)   | Electric explosion proof fans.  |
| 16. | One (1)   | Bullhorn and chalk board.   |
| 17. | Three (3) | 300 cu. ft. air bottles for the safe briefing area.                   |
| 18. | Two (2)   | 30 pound fire extinguishers.  |
| 19. | Six (6)   | Battery powered voice mikes for communication when wearing air masks. |
| 20. | One (1)   | Battery powered combustible gas meter.                                |

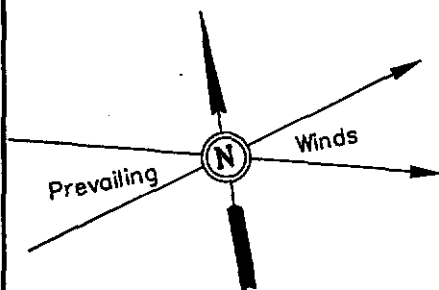
**Insert drilling location map showing placement of safety equipment.**

# COASTAL OIL & GAS CORP.

## LOCATION LAYOUT TO ACCOMPANY H<sub>2</sub>S CONTINGENCY PLAN

NBU #367

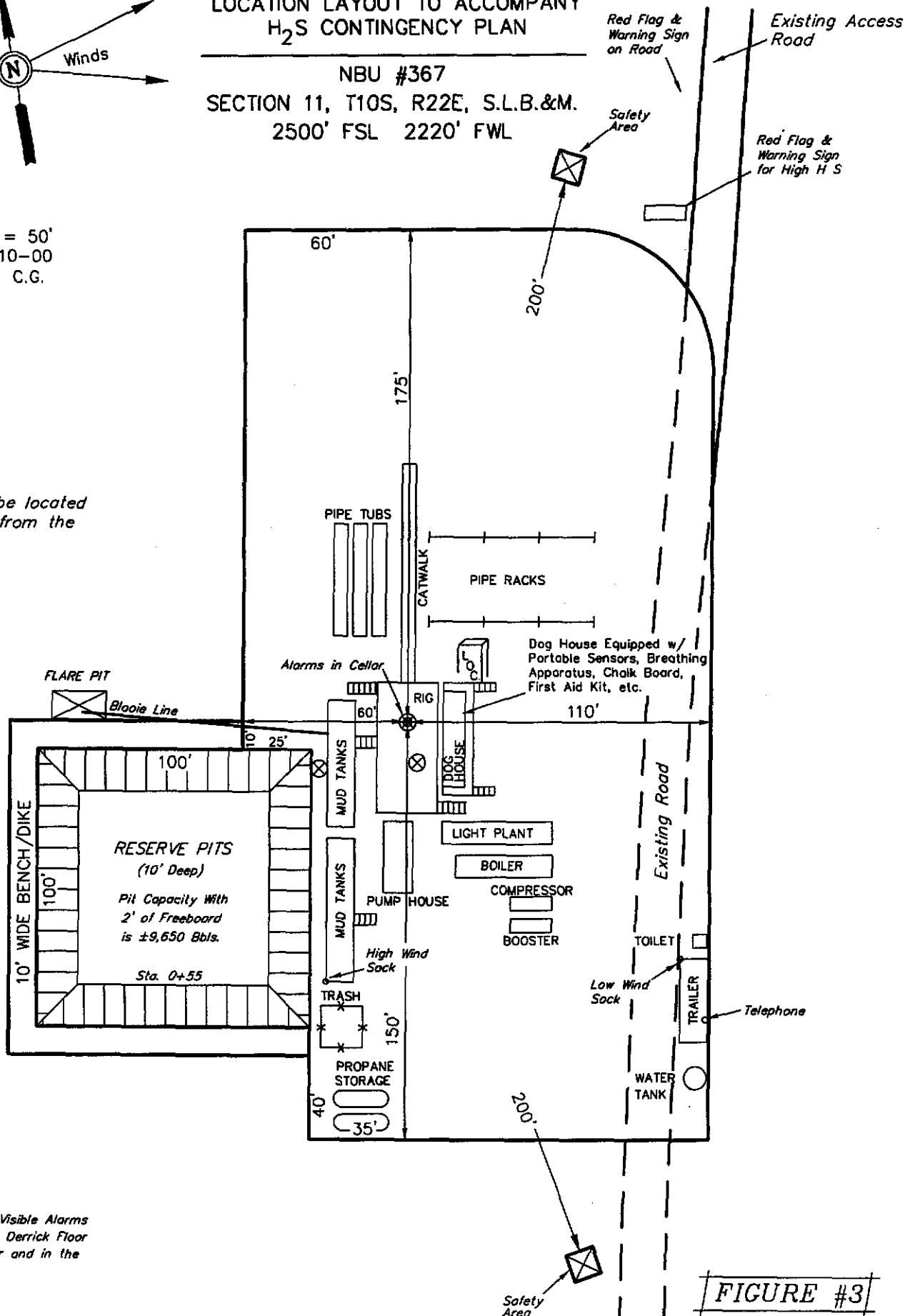
SECTION 11, T10S, R22E, S.L.B.&M.  
2500' FSL 2220' FWL



SCALE: 1" = 50'  
DATE: 11-10-00  
Drawn By: C.G.

### NOTE:

Flare Pit is to be located  
a min. of 100' from the  
Well Head.



⊗ = Audible & Visible Alarms  
Located on Derrick Floor  
Shale Skaler and in the  
Cellar.

FIGURE #3

## **5. Well Ignition Procedures**

If it should become apparent that an uncontrolled release of hydrogen sulfide to the atmosphere may endanger the health and safety of the public or well site personnel, the Coastal drilling foreman will make a decision to ignite the well. The following procedure should be followed before attempting to ignite the well.

**A. Ignition Equipment** - the following equipment will be available on-site for use by the ignition team.

1. 2-12-gauge flare guns with flare shells.
2. 2-500 ft. fire resistant retrieval ropes.
3. 1 portable combustible gas meter.
4. Self contained breathing apparatus (SCBA) for each member of the ignition team.
5. 1 backup vehicle with communications equipment.

### **B. Ignition Procedures**

1. The Coastal drilling foreman will ensure that well site personnel are evacuated to a safe area upwind of the well bore prior to any ignition action.
2. The Coastal foreman and a designated partner "buddy" backed up by well site safety personnel will comprise the ignition team. All team members will be wearing 30 minute SCBAs.
3. The backup crew will be positioned near a radio equipped vehicle at a safe distance from the sour gas release. They will standby to rescue the actual team igniting the well.
4. The partner of the ignition team will carry a combustible gas / hydrogen sulfide meter to continuously monitor the area in which they are working and define the perimeter of the gas cloud.
5. The Coastal foreman will carry the flare gun and shells.
6. The ignition team will determine the hazardous area and establish safe working perimeters. Once this is identified the team will proceed

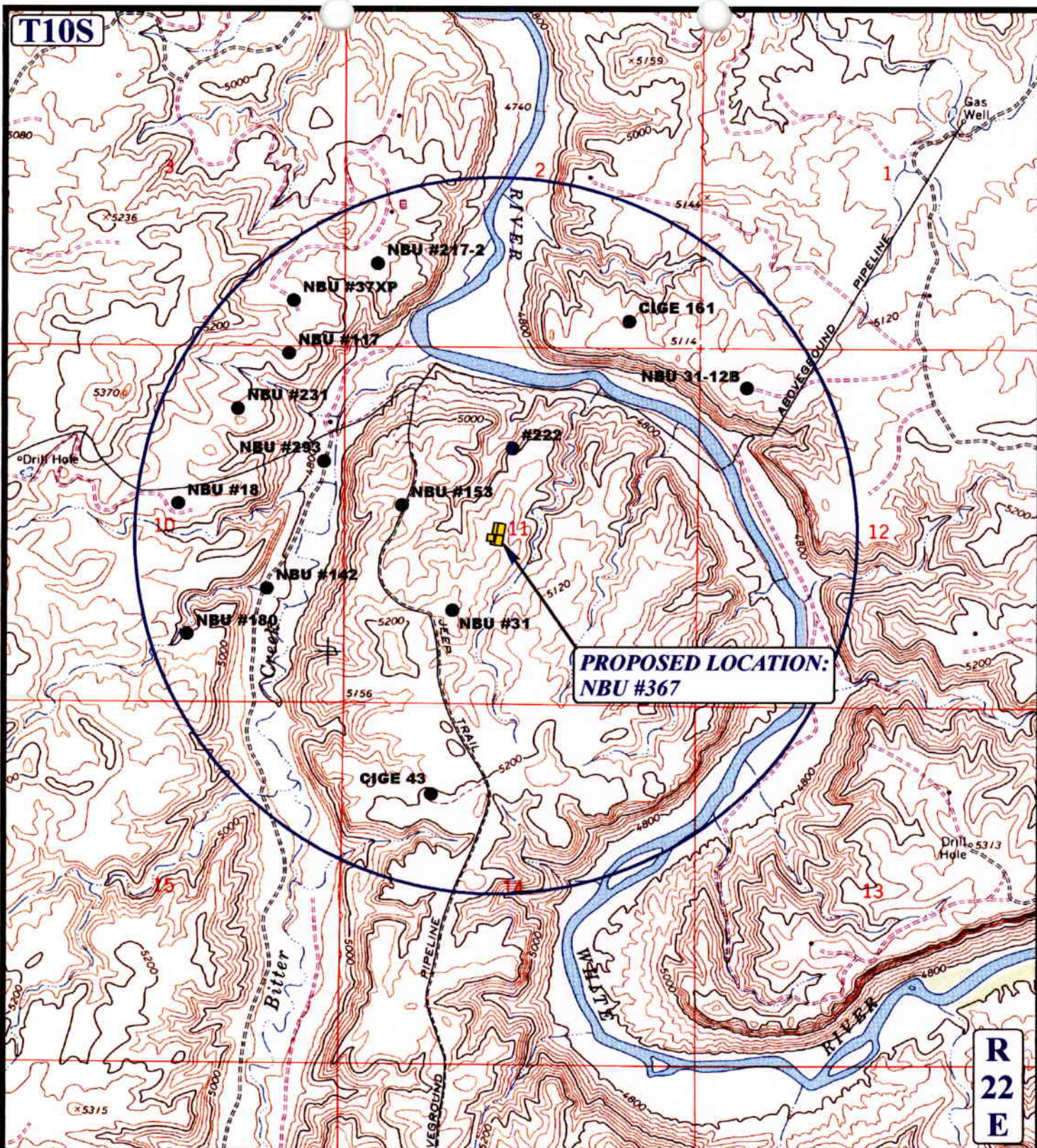
upwind of the leak and fire into the area with flare gun. If trouble is encountered in trying to light the leak, retry to ignite by firing the flare shells at 45 and 90 degree angles to the gas source, but DO NOT approach closer to the leak.

7. After ignition, monitor for sulfur dioxide and work with the support group to restrict access to the contaminated area.

## **6. Residents & General Public Within the Radius Of Exposure**

There are no residents within a one mile radius of the well site. Coastal Oil & Gas Corporation operates other wells within a one mile radius. Coastal personnel could be working in the area at any time of day.





# LEGEND:

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813



# COASTAL OIL & GAS CORP.

**NBU #367**  
**SECTION 11, T10S, R22E, S.L.B.&M.**  
**2500' FSL 2220' FWL**

**TOPOGRAPHIC**  
**MAP**

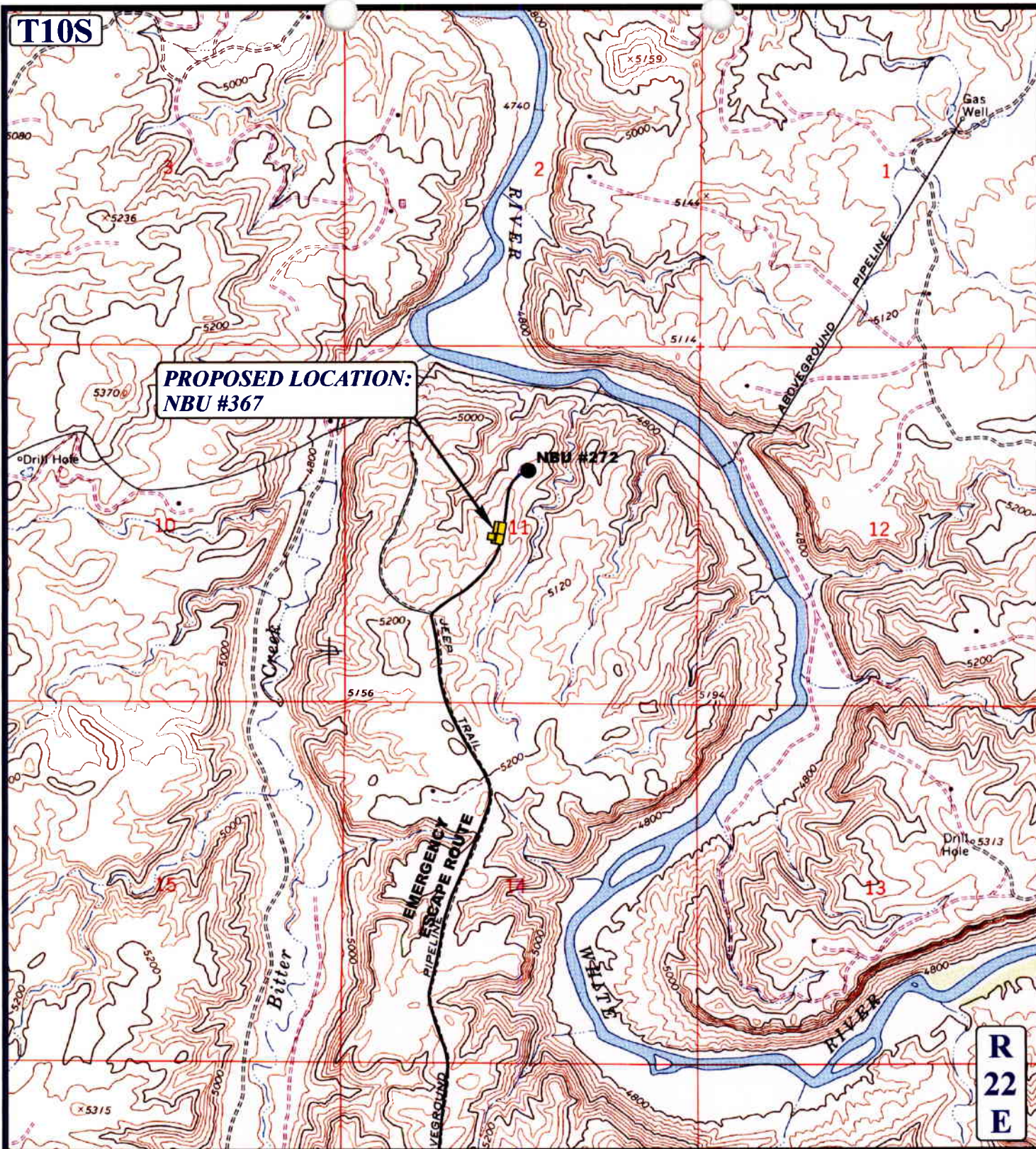
**7 21 00**  
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: C.G. REVISED: 00-00-00





**T10S**



**LEGEND:**

- PROPOSED ACCESS ROAD
- EXISTING ROAD



**COASTAL OIL & GAS CORP.**

**NBU #367**  
**SECTION 11, T10S, R22E, S.L.B.&M.**  
**2500' FSL 2220' FWL**



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC**  
**MAP**

**11 10 00**  
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: C.G. REVISED: 00-00-00

**B**  
**TOPO**



## 7. Emergency Phone Directory

### A. Coastal Oil & Gas Corporation

1368 South 1200 East  
Vernal, UT 84078  
435-781-7048

Title	Name		Phone
Utah Production Manager	Sam Prutch	O	435-781-4486
		H	435-781-0166
		M	435-489-2154
Production Superintendent	Paul Breshears	O	435-789-4433
		H	435-789-8877
		M	435-823-7436
		M	435-790-4433
Drilling	Larry Tavegia	H	435-789-1717
		M	435-828-7255
Drilling	Scott Seelly	H	435-789-1101
		M	435-828-1101
Vice President-Production Rocky Mt. District	Dwayne Jamal	O	713-877-7527
Senior Environmental Coord. Rocky Mt. District	Deborah Harris	O	435-781-7048
		H	435-781-8099
		M	453-828-6514
Senior Environmental Activity Coord. Rocky Mt. District	Carroll Estes	O	435-751-7009
		H	435-789-3301
		M	435-828-3301
Director Environmental & Safety Affairs - Houston, TX	Mike McAllister		800-877-3933
		O	713-877-6590
		H	713-469-5789
Colorado Interstate Gas Co.	Ron Carpenter	H	435-789-0455
		M	435-828-7926

**B. Emergency Services Phone List**

1. Ashley Valley Medical Center - Vernal, UT .....435-789-3342
2. Ambulance Services - Uintah County, UT .....911
3. Sheriff Department - Uintah County, UT .....435-789-4222
4. Highway Patrol - Utah .....800-222-0038
5. Fire Department - Uintah County, UT .....435-789-2511
6. Utah Division Oil & Gas - Salt Lake City, UT .....801-538-5277
7. Medical Helicopter - Air Med- Salt Lake City, UT .....800-453-0120

## 8. Properties of Gases

If gas should be produced, it could be a mixture of carbon dioxide, hydrogen sulfide, and methane.

### TOXICITY OF VARIOUS GASES

Common Name	Specific Chemical Formula	Gravity (Air = 1)	Threshold Limit <sup>1</sup>	Hazardous Limit <sup>2</sup>	Lethal Concern <sup>3</sup>
Hydrogen Sulfide	H <sub>2</sub> S	1.18	10 ppm	250 ppm/hr	600 ppm
Sulfur Dioxide	SO <sub>2</sub>	2.21	5 ppm	--	1000 ppm
Carbon Monoxide	CO	0.97	50 ppm	400 ppm/hr	1000 ppm
Carbon Dioxide	CO <sub>2</sub>	1.52	5000 ppm	5%	10%
Methane	CH <sub>4</sub>	0.55	90000 ppm above 5% in Air	Combustible	—

1. **Threshold** - Concentration at which it is believed that all workers may repeatedly be exposed, day after day, without adverse side effects.
2. **Hazardous** - Concentration that may cause death.
3. **Lethal** - Concentration that will cause death with short-term exposure

## 1. Hydrogen Sulfide

### General Properties

Hydrogen sulfide is a colorless and transparent gas and is flammable. It is heavier than air and, hence, may accumulate in low places.

Although the slightest presence of  $H_2S$  in the air is normally detectable by its characteristic "rotten egg" odor, it is dangerous to rely on the odor as a means of detecting excessive concentrations because the sense of smell is rapidly lost, allowing lethal concentrations to be accumulated without warning. The following table indicates the poisonous nature of hydrogen sulfide, which is more toxic than carbon monoxide.

Common names: sour gas, acid gas, rotten egg gas, sulphur gas, sulphurated gas, sweet gas ( $H_2S$  is a sweet tasting gas, but often the word "tasting" is left out).

### Physical - Chemical Properties

Chemical Formula	$H_2S$
1. Specific Gravity (air = 1.000)	1.193 (@ 77 F)
2. Color	None
3. Odor	Compare to rotten eggs
4. Odor Threshold	0.13 part of 1 ppm
5. Corrosivity	Reacts with metals, plastics, tissues and nerves.
6. Solubility in Water	4.0 to 1 in $H_2O$ @ 32 F 2.6 to 1 in $H_2O$ @ 68 F
7. Effects on Humans	Olfactory nerves, respiratory nerves, irritates sensitive membranes in eyes, nose, and throat.
8. Vapor Pressure	19.6 atmospheres at 25 C
9. Explosive Limits	4.3% to 46% by volume in air

10. Ignition Temperature	500E F (burns with a pale flame)
11. Molecular Weight	34.08
12. Conversion Factors	1 mg / 1 of air = 717 ppm (at 25 C and 760 mm HG). 1 ppm = 0.00139 mg / 1 of air
13. pH	3 in water

### **Industrial Occurrences**

Hydrogen Sulfide exposures occur in certain processes in the petroleum industry, chemical plants, chemical laboratories, sulfur and gypsum mines, viscose rayon and rubber industries, tanneries, and in the manufacture of some chemicals, dyes and pigments. It may be encountered in excavations in swampy or filled ground. It is produced when sulfur-containing organic matter decomposes, and it can therefore be found in sewage or organic-waste treatment plants. A common sewer gas, it may find its way into utility manholes, particularly dangerous when encountered in tanks, vessels, and other enclosed spaces.

### **Toxic Properties**

Hydrogen Sulfide is an extremely toxic and irritating gas. Free Hydrogen Sulfide in the blood reduces its oxygen-carrying capacity, thereby depressing the nervous system. Sufficiently high concentrations cause blocking of the phrenic nerve, resulting in immediate collapse and death due to respiratory failure and asphyxiation.

Because Hydrogen Sulfide is oxidized quite rapidly to sulfates in the body, no permanent after effects occur in cases of recovery from acute exposures unless oxygen deprivation of the nervous system is prolonged. However, in cases of acute exposures, there is always the possibility that pulmonary edema may develop. It is also reported that symptoms such as nervousness, dry nonproductive coughing, nausea, headache, and insomnia, lasting up to about three days, have occurred after acute exposures to Hydrogen Sulfide.

At low concentrations the predominant effect of Hydrogen Sulfide is on the eyes and respiratory tract. Eye irritation, conjunctivitis, pain, lacrimation, keratitis, and photophobia may persist for several days. Respiratory tract

symptoms include coughing, painful breathing, and pain in the nose and throat.

There is no evidence that repeated exposures to Hydrogen Sulfide result in accumulative or systemic poisoning. Effects such as eye irritation, respiratory tract irritation, slow pulse rate, lassitude, digestive disturbances, and cold sweats may occur, but these symptoms disappear in a relatively short time after removal from the exposure. Repeated exposures to Hydrogen Sulfide do not appear to cause any increase or decrease in susceptibility to this gas.

The paralytic effect of Hydrogen Sulfide on the olfactory nerve is probably the most significant property of the gas. This paralysis may create a false sense of security. A worker can be overcome after the typical rotten-egg odor has disappeared. Rather than the characteristic Hydrogen Sulfide odor, some victims of sudden acute overexposure have reported a brief, sickeningly sweet odor just prior to unconsciousness.

Subjective olfactory responses to various concentrations of Hydrogen Sulfide have been summarized as follows:

0.02 ppm .....	No Odor
0.13 ppm.....	Minimal perceptible odor
0.77 ppm.....	Faint, but readily perceptible odor
4.60 ppm.....	Easily detectable, moderate odor
27.0 ppm.....	Strong, unpleasant odor, but not intolerable

Physiological responses to various concentrations of Hydrogen Sulfide have been reported as follows:

10 ppm	Beginning eye irritation
50-100 ppm	Slight conjunctivitis and respiratory tract irritation after 1 hour exposure.

	100 ppm Coughing, eye irritation, loss of sense of smell after 2-15 minutes. Altered respiration, pain in the eyes, and drowsiness after 15-30 minutes, followed by throat irritation after 1 hour. Several hours' exposure results in gradual increase in severity of these symptoms and death may occur within the next 48 hours.
200-300 ppm	Marked conjunctivitis and respiratory tract irritation after 1 hour of exposure.
500-700 ppm	Loss of consciousness and possibility of death in 30 minutes to 1 hour.
700-1000 ppm	Rapid unconsciousness, cessation of respiration, and death.
1000-2000 ppm	Unconsciousness at once, with early cessation of respiration and death in a few minutes. Death may occur even if individual is removed to fresh air at once.

### **Acceptable Concentrations**

#### **Acceptable Eight-Hour Time-Weighted Average**

To avoid discomfort, the time-weighted average concentration of Hydrogen Sulfide shall not exceed 10 ppm.

#### **Acceptable Ceiling Concentrations**

The acceptable concentration for protection of health for an eight-hour, five-day week shall be 20 ppm. Fluctuations are to occur below this concentration.

#### **Acceptable Maximum for Peaks Above Acceptable Base Line for Continuous Exposure**

A single-peak concentration not exceeding 50 ppm for a maximum of 10 minutes is allowable provided that the daily time-weighted average is not exceeded.



### H<sub>2</sub>S Equivalents

<u>Parts per Million</u>	<u>Percent</u>	<u>Grains per 100 cu. ft.</u>
1	.0001	.055
10	.001	.55
18	.0018	1.0
100	.01	5.5
1000	.1	55.5
10000	1.0	555.5

Grains per 100 cu. ft. = % by volume Mole 636.4 1% by volume = 10,000 ppm

## B. Sulfur Dioxide

Sulfur Dioxide (SO<sub>2</sub>) is a colorless, transparent gas and is non-flammable.

Sulfur Dioxide is produced during the burning of H<sub>2</sub>S. Although SO<sub>2</sub> is heavier than air, it will be picked up by a breeze and carried downwind at elevated temperatures. While Sulfur Dioxide is extremely irritating to the eyes and mucous membranes of the upper respiratory tract, it has exceptionally good warning powers in this respect.

### Physical - Chemical Properties

Chemical Formula	SO <sub>2</sub>
1. Specific Gravity (air = 1.000)	2.212
2. Color	None
3. Flammable	No
4. Odor	Characteristic, pungent, gives ample warning of its presence.
5. Corrosivity	Dry – not corrosive to ordinary metals Wet – corrosive to most common metals
6. Allowable Concentrations	5 ppm (ACGIH) 5 ppm (OSHA)
7. Effects on Humans	Irritates eyes, throat and upper respiratory system

### Concentrations & Effects

<u>%SO<sub>2</sub></u>	<u>ppm</u>	<u>Effects</u>
0.0005	5	Pungent odor-normally a person can detect SO <sub>2</sub> in this range.
0.001	10	Safe for eight (8) hour exposure.
0.0012	12	Throat irritation, coughing, constriction of the chest, tearing and smarting of the eyes.
0.015	150	So irritating that it can only be endured for a few minutes.
0.05	500	Causes a sense of suffocation, even with the first breath.

### Toxic Properties

Sulfur Dioxide is an irritating gas in its vapor form and the odor is so intensely irritating that concentrations of 3 to 5 parts per million in the air are readily detectable by the normal person. In higher concentrations, the severely irritating effect of the gas makes it unlikely that any person would be able to remain in a Sulfur Dioxide contaminated atmosphere unless he were unconscious or trapped.

Sulfur Dioxide gas is intensely irritating to the eyes, throat, and upper respiratory system. Inhalation of this gas in concentrations of 8 to 12 parts per million in air causes throat irritation, coughing, constriction of the chest, tearing and smarting of the eyes. 150 parts per million is so extremely irritating that it can be endured only for a few minutes. 500 parts per million is so acutely irritating to the upper respiratory tract that it causes a sense of suffocation, even with the first breath.

Out of numerous reported exposures to Sulfur Dioxide, there are few references that would indicate pneumonia as an after effect.

# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:  
3160  
(UT-922)

September 27, 2000

### Memorandum

To: Assistant District Manager Minerals, Vernal District  
From: Michael Coulthard, Petroleum Engineer  
Subject: 2000 Plan of Development Natural Buttes Unit,  
Uintah County, Utah.

Pursuant to email between Lisha Cordova, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management. The following wells are planned for calendar year 2000 within the Natural Buttes Unit, Uintah County, Utah.

Api Number	Well	Location
43-047-33708	NBU 358	Sec. 16, T10S, R21E 0872 FSL 1950 FWL
43-047-33706	NBU 359	Sec. 29, T10S, R21E 1220 FNL 2035 FEL
43-047-33705	NBU 361	Sec. 32, T10S, R22E 0491 FNL 0917 FWL
43-047-33707	NBU 367	Sec. 11, T10S, R22E 2500 FSL 2220 FWL

This office has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

bcc: File - Natural Buttes Unit  
Division of Oil Gas and Mining  
Agr. Sec. Chron  
Fluid Chron

MCoulthard:mc:9-27-0



September 22, 2000

State of Utah DOGM  
1594 West North Temple, Suite #1210  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801


Attention: Lisha Cordova

Enclosed is the original and one copy (each) of the Application for Permit to Drill for the locations listed below:

✓NBU #361    NBU #345    ✓NBU #358  
✓NBU #367    ✓NBU #359    ✓NBU #347

Please contact me as soon as possible in order to schedule an on-site.

If you have any questions or need additional information, please do not hesitate to call me, (435)-781-7023.

Sincerely,  
  
Cheryl Cameron  
Sr. Regulatory Analyst

CC: SU/WF

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STATE OF UTAH  
OIL, GAS & MINES

**Coastal Oil & Gas Corporation**

A SUBSIDIARY OF THE COASTAL CORPORATION  
1368 S 1200 E • P.O. BOX 1148 • VERNAL UT 84078 • 435/789-4433 • FAX 435/789-4436

NBU #367  
NE/SW Sec. 11, T10S-R22E  
Uintah County, UT  
U-01197-A-ST

**ONSHORE ORDER NO. 1  
COASTAL OIL & GAS CORPORATION**

***DRILLING PROGRAM***

**1. Estimated Tops of Important Geologic Markers:**

<u>Formation</u>	<u>Depth</u>
KB	5180'
Green River	1087'
Wasatch	4183'
Mesaverde	6533'
Castlegate A	8699
Total Depth	8800'

**2. Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:**

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River	5180'
Gas	Wasatch	1087'
Gas	Mesaverde	4183'
	Castlegate A	6533'
Water	N/A	
Other Minerals	N/A	
Total Depth		8800'

**3. Pressure Control Equipment (Schematic Attached)**

The BOP stack will consist of one 11" 3,000 psi annular BOP, one 11" 3,000 psi double ram, and one 11' drilling spool. The lower ram will contain pipe rams, and the upper ram will contain blind rams.

The choke and kill lines and the choke manifold will have a 3,000 psi minimum pressure rating.

The hydrill will be tested to 1,500 psi. The rams, choke manifold, kelly safety valves, drill string safety valves, and inside BOP will be tested to 3,000 psi.

**4. Proposed Casing & Cementing Program:**

Refer to the attached Cement & Casing Program.

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5. **Drilling Fluids Program:**

Refer to the attached Mud Program.

6. **Evaluation Program:** (Logging)

<u>Depth</u>	<u>Log Type</u>
SC-TD	Platform Express with Sonic

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated @ 8800' TD approximately equals 3,520 psi (calculated at 0.4 psi/foot).

Maximum anticipated surface pressure equals approximately 1,584psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

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NBU #367  
NE/SW Sec. 11, T10S-R22E  
Uintah County, UT  
U-01197-A-ST

ONSHORE ORDER NO. 1

**MULTI-POINT SURFACE USE & OPERATIONS PLAN**

**1. Existing Roads:**

Refer to Topo Map A for directions to the location.

Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

To reach the NBU #367 location proceed in a westerly direction from Vernal, Utah along U.S. Highway 40 approximately 14.0 miles to the junction of State Hwy 88; exit left and proceed in a southerly direction approximately 17.0 miles to Ouray, Utah; proceed in a southerly direction approximately 11.5 miles on the Seep Ridge Road to the junction of this road and an existing road to the east; turn left and proceed in a southeasterly direction approximately 12.0 miles to the junction of this road and an existing road to the south; turn right and proceed in a southerly direction approximately 0.6 miles to the junction of this road and an existing road to the southeast; turn left and proceed in a southeasterly direction approximately 1.4 miles to the junction of this road and an existing road to the north; proceed in a northerly direction approximately 2.8 miles to the junction of this road and an existing road to the northeast; turn right and proceed in a northeasterly direction approximately 0.2 miles to the proposed location.

Total distance to Vernal is approximately 59.5 miles.

Refer to Topo Maps A and B for location of access roads within a 2 mile radius.

***Improvements to existing access roads shall be determined at the on-site inspection.***

All existing roads will be maintained and kept in good repair during all drilling and completion operations associated with this well.

**2. Planned Access Roads:**

Refer to Topo Map B for the location of the proposed access road.

The upgraded and new portions of the access road will be crowned and ditched with a running surface of 18 feet and a maximum disturbed width of 30 feet, ***unless modified at the on-site inspection.*** Appropriate water control will be installed to control erosion.

***Existence of pipelines; maximum grade; turnouts; major cut and fills, culverts, or bridges; gates, cattle guards, fence cuts, or modifications to existing facilities shall be determined at the on-site.***

The access road was centerline flagged during time of staking.

Surfacing material may be necessary, depending upon weather conditions.

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Surface disturbance and vehicular traffic will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.

3. **Location of Existing Wells Within a 1-Mile Radius:**

Please refer to Topo Map C.

4. **Location of Existing & Proposed Facilities:**

*The following guidelines will apply if the well is productive.*

All production facilities will be located on the disturbed portion of the well pad and at a minimum of 25 feet from the toe of the back slope or the top of the fill slope.

A dike will be constructed completely around those production facilities which contain fluids (i.e., production tanks, produced water tanks, and/or heater/treater). These dikes will be constructed of compacted subsoil, be impervious, hold 100% of the capacity of the largest tank, and be independent of the back cut.

All permanent (on-site six months or longer) above the ground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the five state Rocky Mountain Inter-Agency Committee.

All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The required color is Desert Brown, Munsell standard color number 10 YR 6/3.

Any necessary pits will be properly fenced to protect livestock and prevent wildlife entry.

The proposed pipeline will leave the wellpad in a southeasterly direction for an approximate distance of 100'. Refer to Topo D.

5. **Location and Type of Water Supply:**

Water for drilling purposes will be obtained from Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32, T4S, R3E, Water User Claim #43-8496, Application #53617.

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

6. **Source of Construction Materials:**

Surface and subsoil materials in the immediate area will be utilized.

Any gravel will be obtained from a commercial source.

7. **Methods of Handling Waste Materials:**

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Drill cuttings will be contained and buried in the reserve pit.

Drilling fluids, including salts and chemicals, will be contained in the reserve pit. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be removed and disposed of at an approved waste disposal facility within 120 days after drilling is terminated.

The reserve pit will be constructed on the location and will not be located within natural drainage, where a flood hazard exists or surface runoff will destroy or damage the pit walls. The reserve pit will be constructed so that it will not leak, break, or allow discharge of liquids. *The need for a reserve pit liner will be determined at the on-site inspection.*

If a plastic reinforced liner is used, it will be a minimum of 12 mil thick, with sufficient bedding used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash or scrap that could puncture the liner will be disposed of in the pit.

Any spills of oil, gas, salt water, or other noxious fluids will be immediately cleaned up and removed to an approved disposal site.

A chemical porta-toilet will be furnished with the drilling rig.

Garbage, trash, and other waste materials will be collected in a portable, self-contained, fully enclosed trash cage during operations. No trash will be burned on location.

All debris and other waste material not contained in the trash cage will be cleaned up and removed from the location immediately after removal of the drilling rig.

Any open pits will be fenced during the operations. The fencing will be maintained until such time as the pits are backfilled.

No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

8. **Ancillary Facilities:**

None are anticipated.

9. **Well Site Layout:** (See Location Layout Diagram)

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s). *This section is subject to modification as a result of the on-site inspection.*

Please see the attached diagram to describe rig orientation, parking areas, and access roads.

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If it is determined that a pit liner will be used at the on-site inspection, the reserve pit will be lined, and when the reserve pit is closed, the pit liner will be buried below plow depth.

All pits will be fenced according to the following minimum standards:

39 inch net wire will be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.

The net wire shall be no more than two inches above the ground. The barbed wire shall be three inches over the net wire. Total height of the fence shall be at least 42 inches.

Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.

Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

All wire shall be stretched, by using a stretching device, before it is attached to corner posts.

The reserve pit fencing will be on three sides during drilling operations, and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

10. **Plans for Reclamation of the Surface:**

*Producing Location:*

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, materials, trash, and debris not required for production.

Immediately upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1.

If a plastic, nylon reinforced liner is used, it shall be torn and perforated before backfilling of the reserve pit.

Before any dirt work associated with location restoration takes place, the reserve pit shall be as dry as possible. All debris in it will be removed. Other waste and spoil materials will be disposed of immediately upon completion of operations.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed within 90 days from the date of well completion, weather permitting.

To prevent surface water (s) from standing (ponding) on the reclaimed reserve pit area, final reclamation of the reserve pit will consist of "mounding" the surface three feet above surrounding ground surface to allow the reclaimed pit area to drain effectively.

Upon completion of backfilling, leveling, and recontouring, the stockpiled topsoil will be spread

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evenly over the reclaimed area(s).

*Dry Hole/Abandoned Location:*

Abandoned well sites, roads, and other disturbed areas will be restored as near as practical to their original condition. Where applicable, these conditions include the re-establishment of irrigation systems, the re-establishment of appropriate soil conditions, and re-establishment of vegetation as specified.

All disturbed surfaces will be recontoured to the approximate natural contours, with reclamation of the well pad and access road to be performed as soon as practical after final abandonment. Reseeding operations will be performed after completion of other reclamation operations.

**11. Surface Ownership:**

State of Utah  
SITLA  
675 East 500 South  
Salt Lake City, UT 84102-2818

**12. Other Information:**

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, the approved Plan of Operations, and any applicable Notice of Lessees. The Operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

The Operator will control noxious weeds along Rights-Of-Way for roads, pipelines, well sites, or other applicable facilities.

A Class III archaeological survey has been conducted. A copy of this report is attached.

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**13. Lessee's or Operators's Representative & Certification:**

Cheryl Cameron  
Senior Regulatory Analyst  
Coastal Oil & Gas Corporation  
P.O. Box 1148  
Vernal, UT 84078  
(435) 781-7023

Tom Young  
Drilling Manager  
Coastal Oil & Gas Corporation  
9 Greenway Plaza, Suite 2770  
Houston, TX 77046  
(713) 418-4156

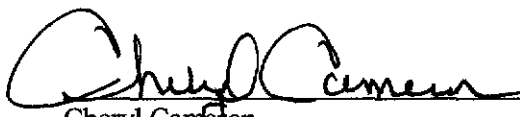
Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Coastal Oil & Gas Corporation is considered to be the operator of the subject well. Coastal Oil & Gas Corporation agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Coastal Oil & Gas Corporation Bond #102103.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by the Operator, its contractors, and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

  
Cheryl Cameron

9/21/00

Date

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OIL, GAS AND MINING

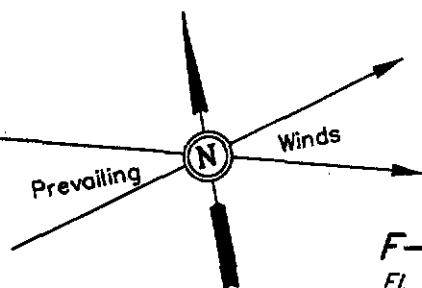
# COASTAL OIL & GAS CORP.

## LOCATION LAYOUT FOR

NBU #367

SECTION 11, T10S, R22E, S.L.B.&M.

2500' FSL 2220' FWL



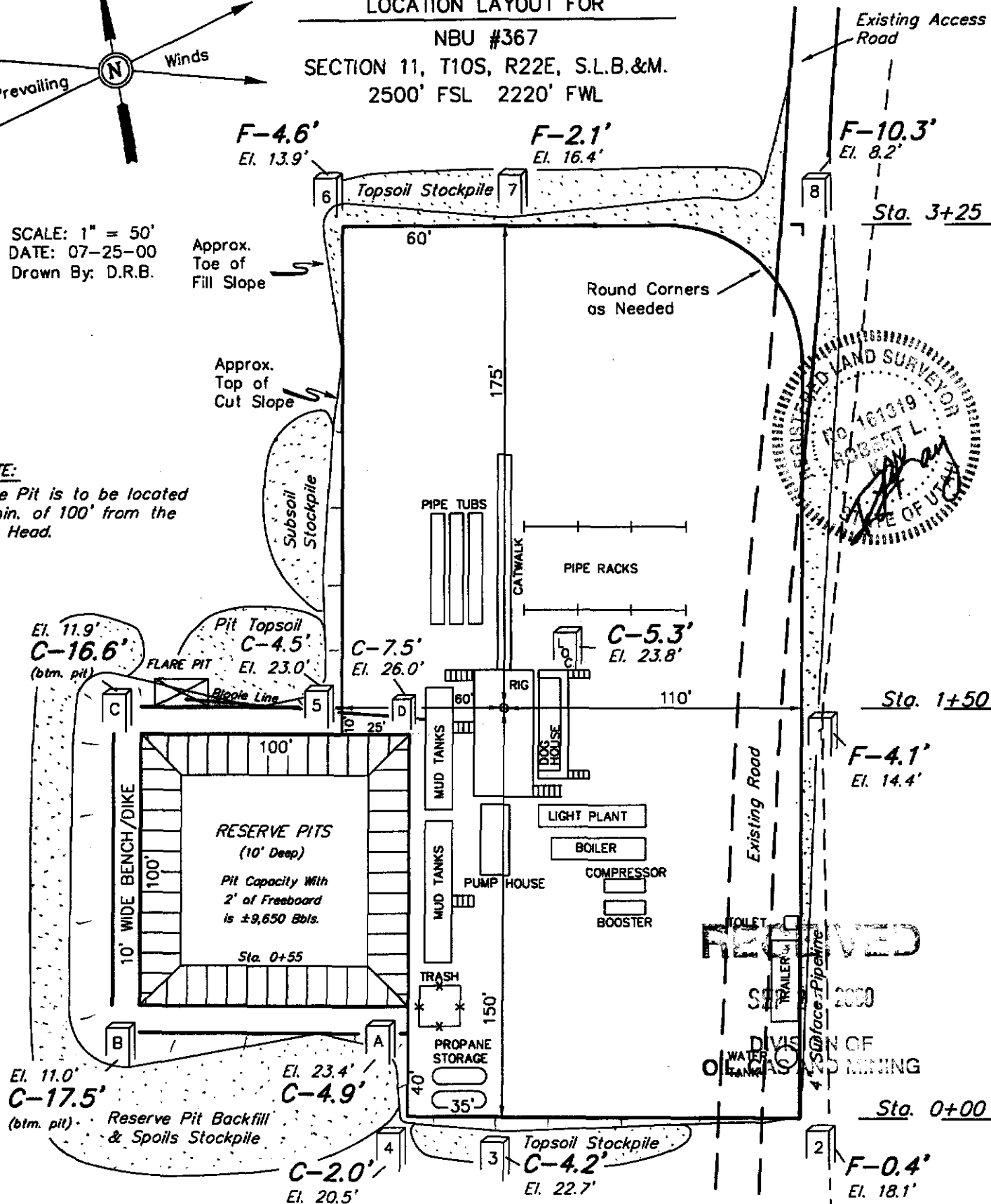
SCALE: 1" = 50'  
DATE: 07-25-00  
Drawn By: D.R.B.

Approx.  
Toe of  
Fill Slope

Approx.  
Top of  
Cut Slope

### NOTE:

Flare Pit is to be located  
a min. of 100' from the  
Well Head.



### NOTES:

Elev. Ungraded Ground At Loc. Stake = 5123.8'

FINISHED GRADE ELEV. AT LOC. STAKE = 5118.5'

FIGURE #1

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East • Vernal, Utah 84078 • (435) 789-1017

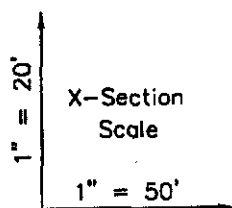
# COASTAL OIL & GAS CORP.

## TYPICAL CROSS SECTIONS FOR

NBU #367

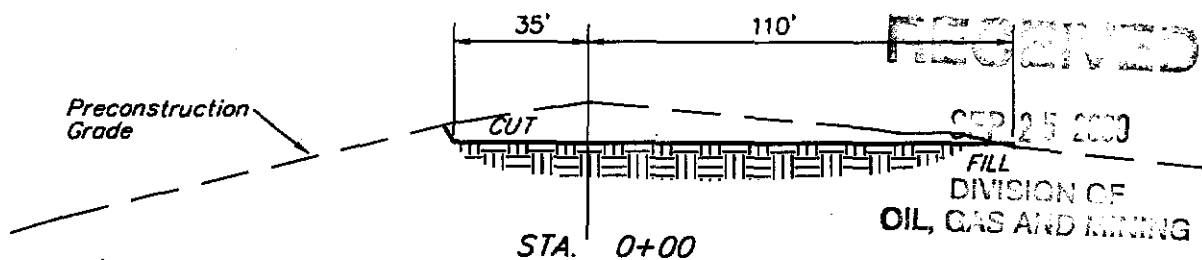
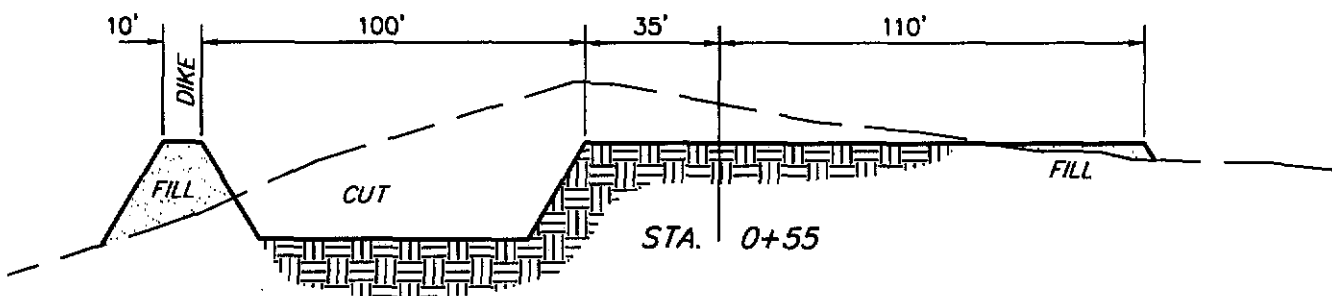
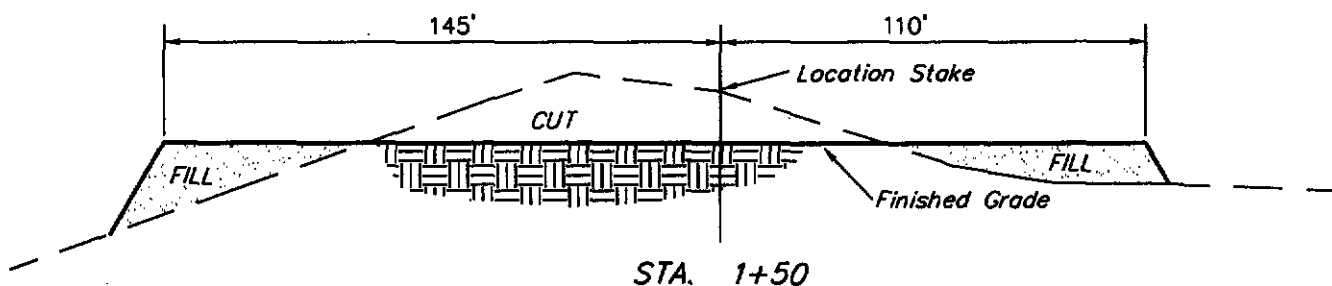
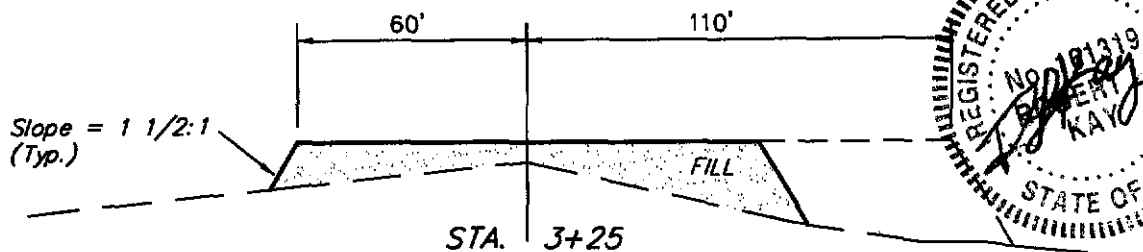
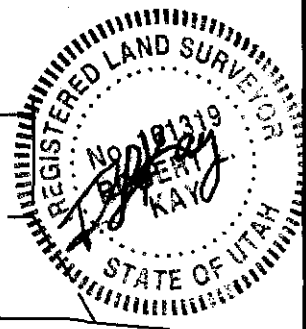
SECTION 11, T10S, R22E, S.L.B.&M.

2500' FSL 2220' FWL



DATE: 07-25-00

Drawn By: D.R.B.



### FIGURE #2

#### APPROXIMATE YARDAGES

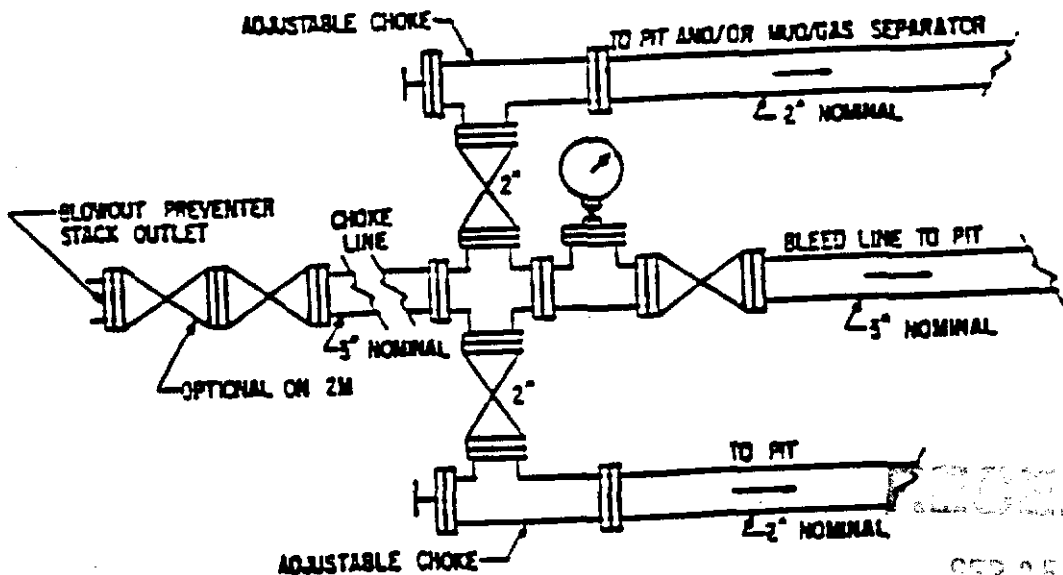
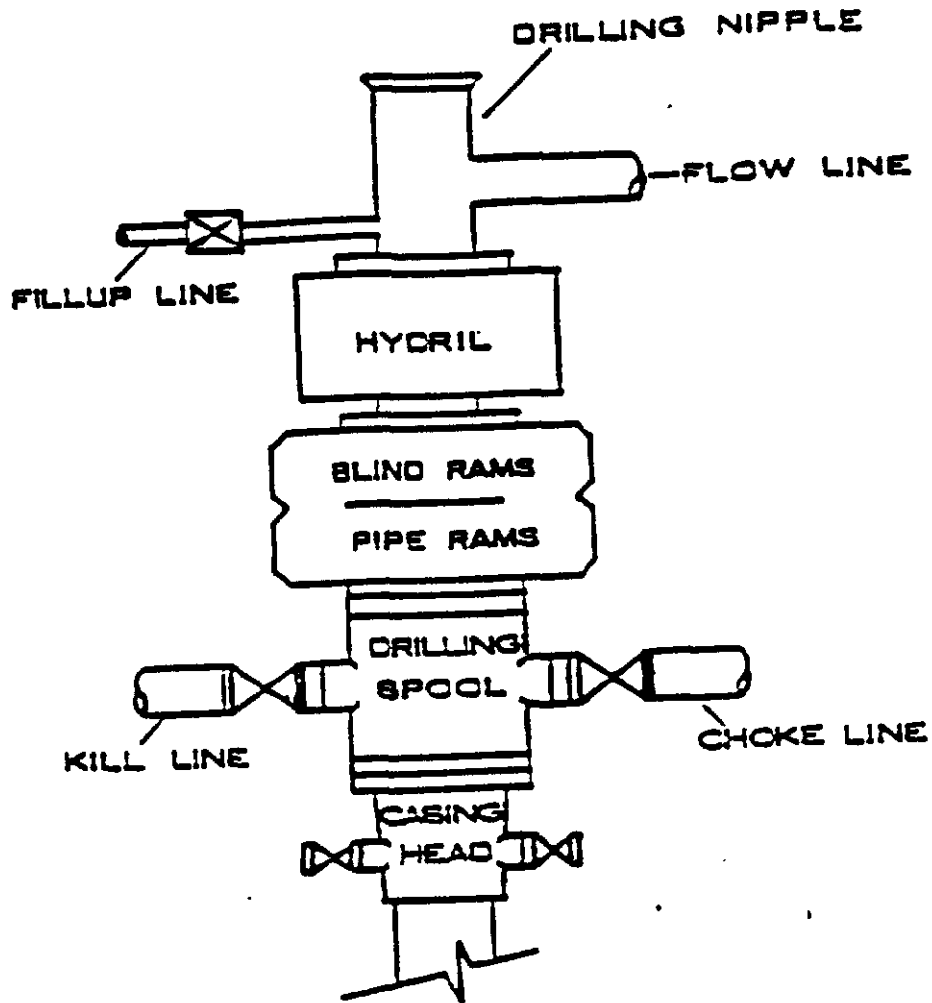
CUT	
(6") Topsoil Stripping	= 1,200 Cu. Yds.
Remaining Location	= 6,710 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 7,910 CU.YDS.</b>
<b>FILL</b>	<b>= 5,100 CU.YDS.</b>

EXCESS MATERIAL AFTER 5% COMPACTION	= 2,540 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 2,540 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 0 Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East • Vernal, Utah 84078 • (435) 789-1077

3,000 PSI

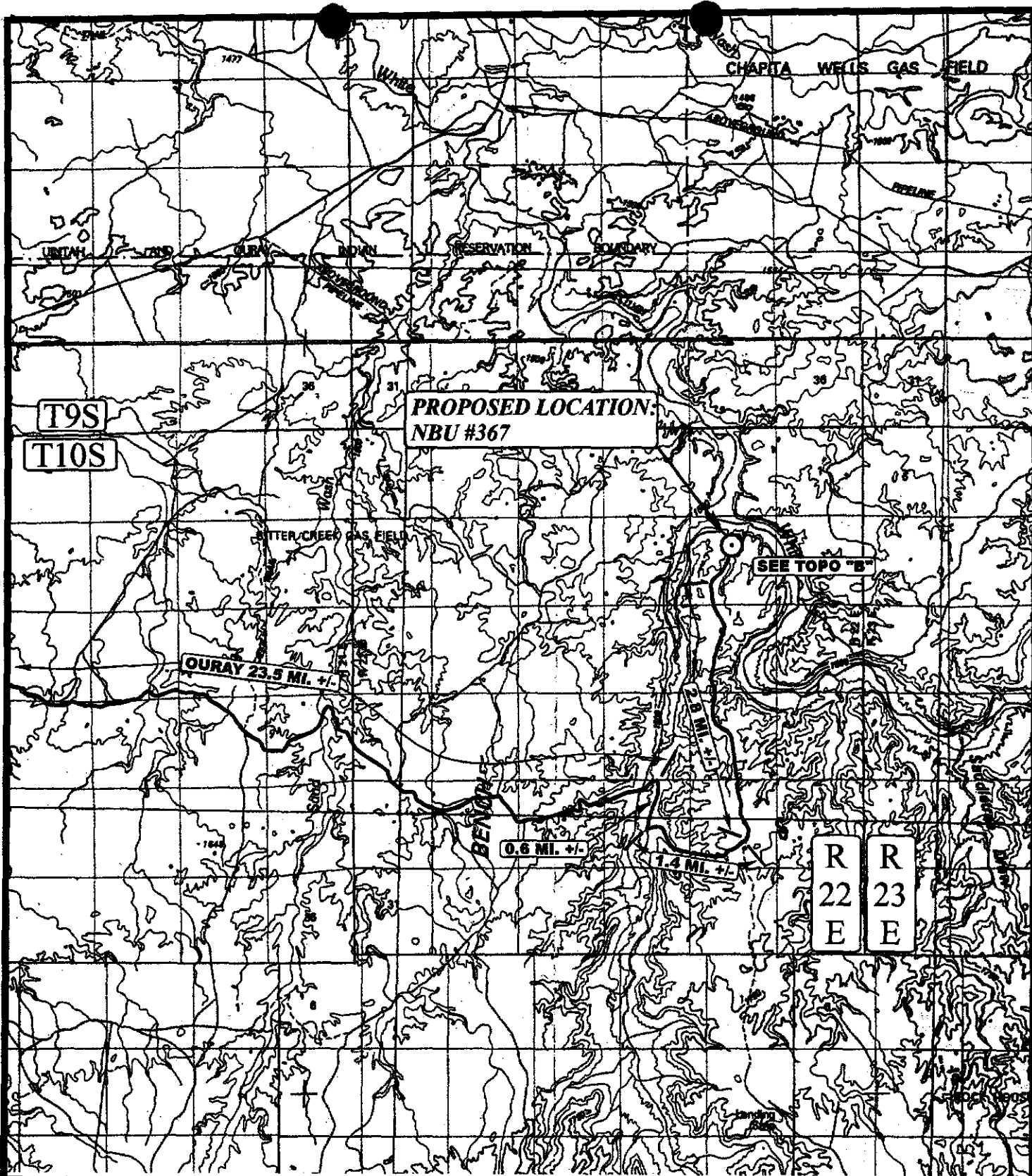
# EOP STACK



SEP 25 2000

DIVISION OF  
OIL, GAS AND MINING





**LEGEND:**

○ PROPOSED LOCATION

N

**COASTAL OIL & GAS CORP.**

**NBU #367**

**SECTION 11, T10S, R22E, S.L.B.&M.  
2500' FSL 2220' FWL**

**U  
T  
S**

**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

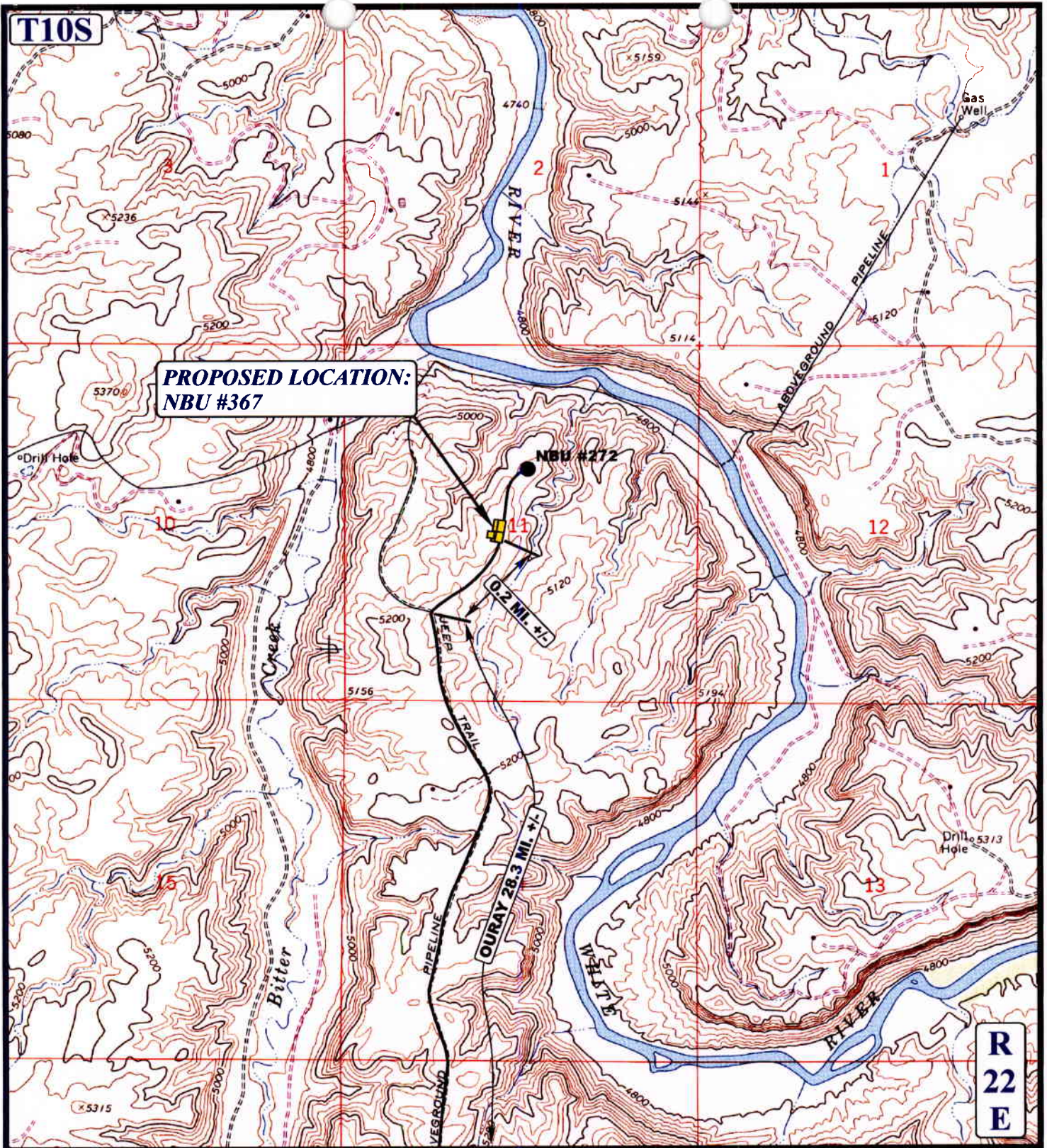
**TOPOGRAPHIC  
MAP**

**7 21 00**  
MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: C.G. REVISED: 00-00-00

**A**  
TOPO





**LEGEND:**

- PROPOSED ACCESS ROAD
- EXISTING ROAD

**COASTAL OIL & GAS CORP.**

**NBU #367**  
**SECTION 11, T10S, R22E, S.L.B.&M.**  
**2500' FSL 2220' FWL**

**U E L S**  
**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

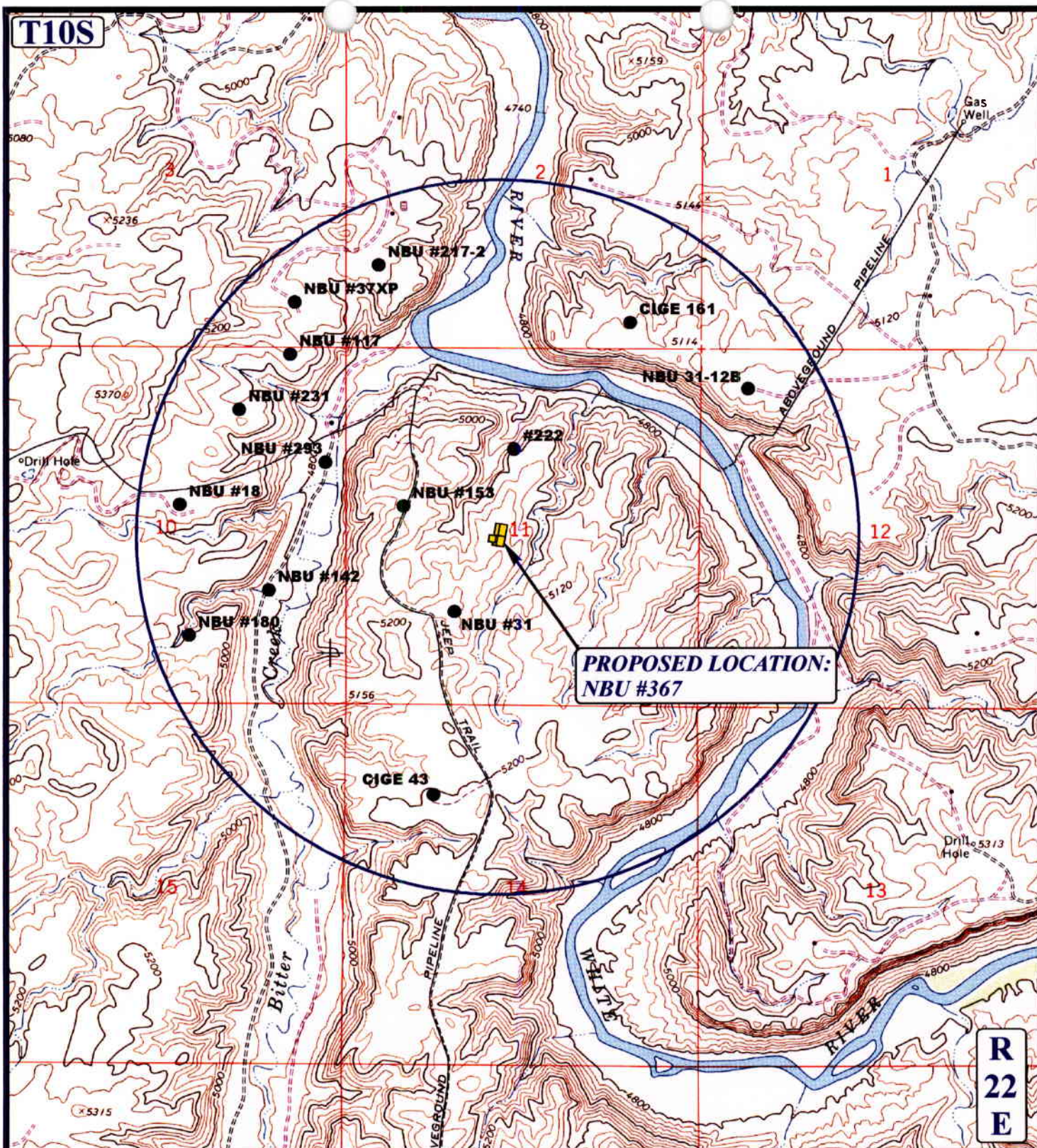


**TOPOGRAPHIC MAP**  
**7 21 00**  
MONTH DAY YEAR  
SCALE: 1" = 2000' DRAWN BY: C.G. REVISED: 00-00-00

**B**  
**TOPO**



**T10S**



**LEGEND:**

- |                   |                         |
|-------------------|-------------------------|
| ⊗ DISPOSAL WELLS  | ⊗ WATER WELLS           |
| ● PRODUCING WELLS | ● ABANDONED WELLS       |
| ● SHUT IN WELLS   | ● TEMPORARILY ABANDONED |

**COASTAL OIL & GAS CORP.**

**NBU #367**  
**SECTION 11, T10S, R22E, S.L.B.&M.**  
**2500' FSL 2220' FWL**



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813



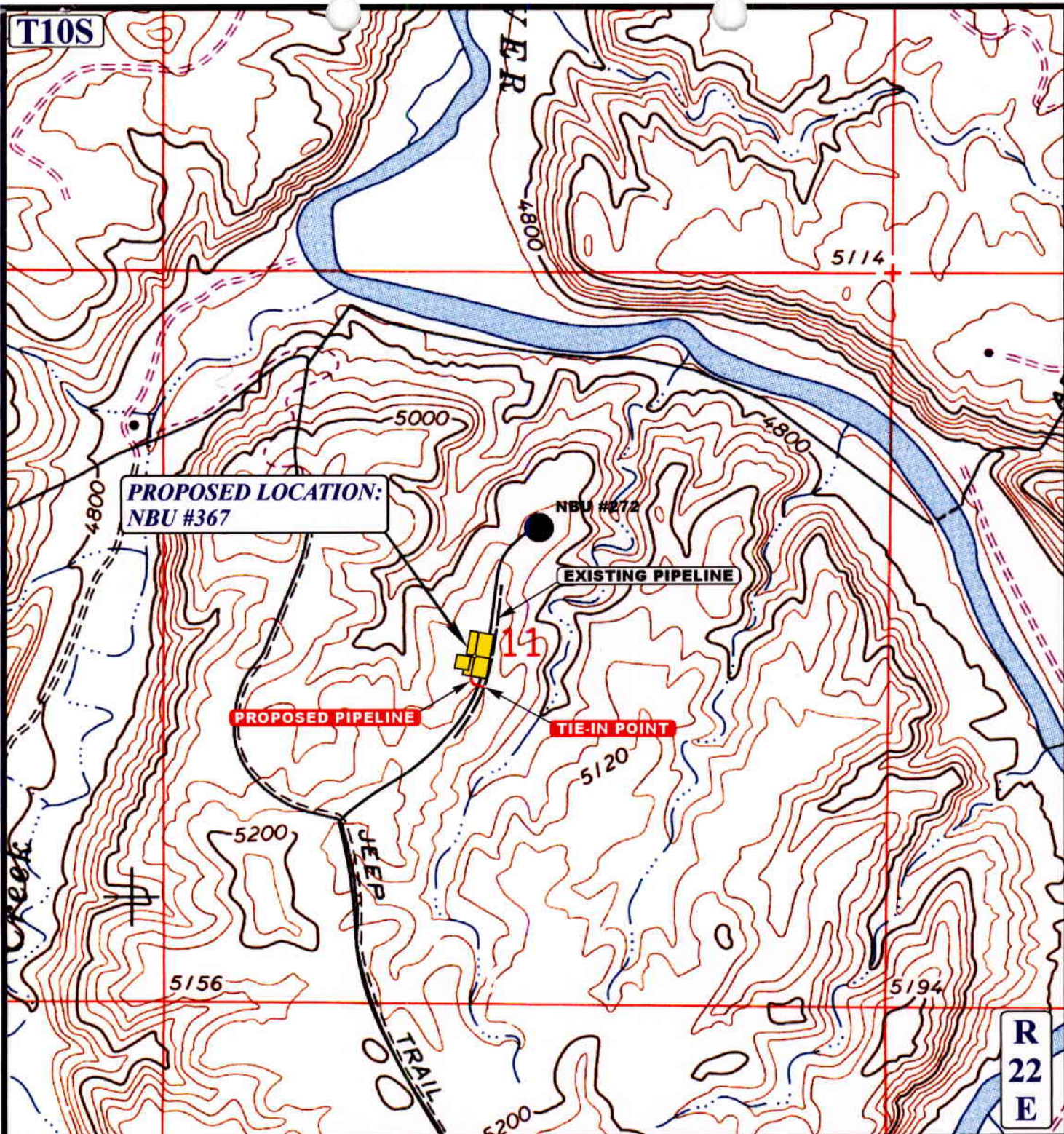
**TOPOGRAPHIC**  
**MAP**

**7** **21** **00**  
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: C.G. REVISED: 00-00-00







**APPROXIMATE TOTAL PIPELINE DISTANCE = 100' +/-**

**LEGEND:**

- EXISTING PIPELINE
- - - PROPOSED PIPELINE
- PROPOSED ACCESS



**COASTAL OIL & GAS CORP.**

**NBU #367**

**SECTION 11, T10S, R22E, S.L.B.&M.**

**2500' FSL 2220' FWL**



**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC  
MAP**

**8 21 00**  
MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: C.G. REVISED: 00-00-00





# COASTAL OIL & GAS CORP.

NBU #367

LOCATED IN UINTAH COUNTY, UTAH  
SECTION 11, T10S, R22E, S.L.B.&M.



PHOTO: VIEW OF LOCATION STAKE

CAMERA ANGLE: EASTERLY



- Since 1964 -

UELS

Uintah Engineering & Land Surveying

85 South 200 East Vernal, Utah 84078  
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS

7 21 00  
MONTH DAY YEAR

PHOTO

TAKEN BY: B.B.

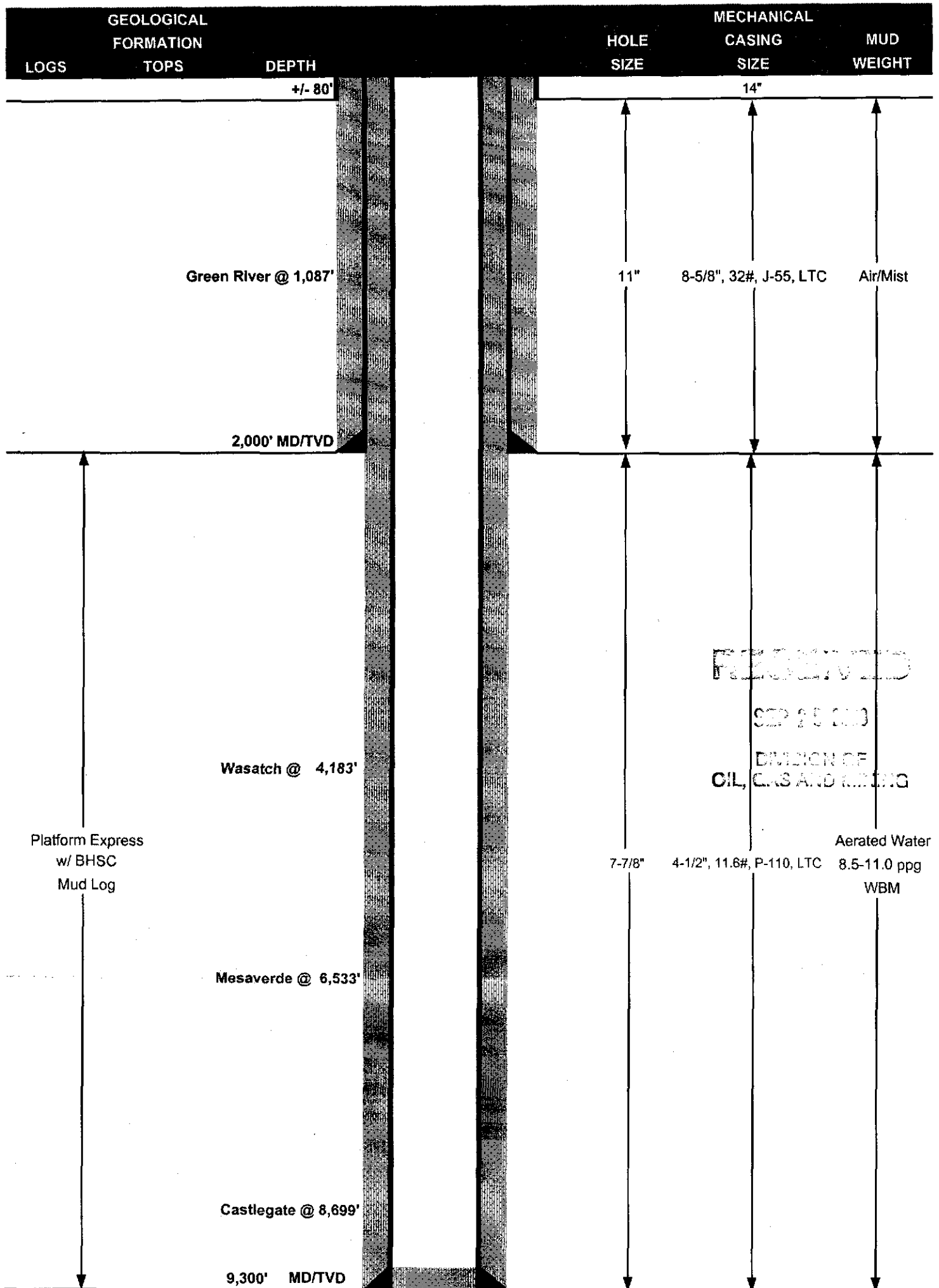
DRAWN BY: C.G.

REVISED: 00-00-00

# COASTAL OIL & GAS CORPORATION

## DRILLING PROGRAM

COMPANY NAME Coastal Oil & Gas Corporation DATE 9/13/00  
WELL NAME NBU #367 TD 9,300' MD/TVD  
FIELD NBU COUNTY Uintah STATE Utah ELEVATION 5,180' KB  
SURFACE LOCATION 2,500' FSL & 2220' FWL Sec 11 T10S-R22E BHL Straight Hole  
OBJECTIVE ZONE(S) Wasatch, Mesaverde  
ADDITIONAL INFO



COASTAL OIL & GAS CORPORATION  
DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
SURFACE	8-5/8"	0-2,000'	32#	J-55	LTC	3,930	2,530	417,000
						3.50	2.70	2.54
PRODUCTION	4-1/2"	0-TD	11.6#	P-110	LTC	10,690	7,560	279,000
						2.52	1.42	1.34

- 1) Maximum Anticipated Surface Pressure (MASP) (Conductor and Surface Casings) = (Frac Gradient at Shoe - Gas Gradient (0.115 psi/ft))(TVD)
- 2) MASP (Int Casing) = Pore Pressure at Next Casing Point - (Gas Gradient x TVD of Next Casing Point x 0.67) - (Mud Weight x TVD x 0.052 x 0.33)
- 3) MASP (Prod Casing) = Pore Pressure - (Gas Gradient x TVD of Production Interval)
- (Burst Assumptions: FG @ 8-5/8" shoe = 13.0 ppg, Max Pore Pressure = 11 ppg Max MW)
- (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing, 100,000 lbs overpull)

CEMENT PROGRAM

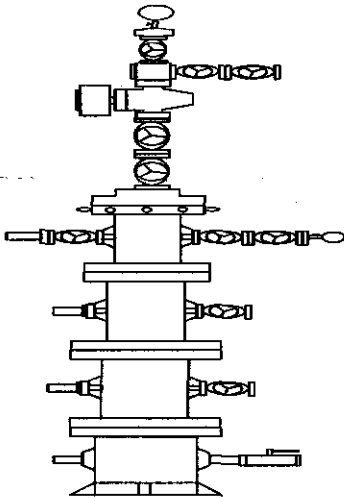
		FT. OF FILL	DESCRIPTION	SACKS	EXCESS*	WEIGHT	YIELD
SURFACE	LEAD	1,500'	Lite Class G + 2% CaCl2 + 0.25 lb/sk Flocele	320	50%	12.70	1.82
	TAIL	500'	Lite Class G + 2% CaCl2 + 0.25 lb/sk Flocele	200	75%	15.60	1.19
PRODUCTION	LEAD	3,883'	HiFill-Mod + 0.6% EX-1 + 0.25 lb/sk Flocele + 0.2% FWCA + 10 lb/sk Gilsonite + 16% Gel + 1% HR-7 + 3% Salt	470	100%	11.60	3.81
	TAIL	5,417'	50/50 Poz + 0.25 lb/sk Flocele + 0.4% HALAD-322 + 2% Gel + 2% Microbond HT + 0.1% HR-5 + 5% Salt	1690	75%	14.40	1.28

\* or 15% over caliper

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 joint, float collar. Centralize first 3 joints & every other collar to surface. Thread lock FE up to and including pin end of float collar.
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PRODUCTION	Guide shoe, 1 joint, float collar. Install 2 bow spring centralizers on the shoe joint and 1 on the next two joints. Then 1 centralizer every third joint to top of tail cement. Thread lock FE up to and including pin end of FC.

WELLHEAD EQUIPMENT



TREE	2-1/16" 5M
TUBING HEAD	11" 5M X 7-1/16" 10M
CASING SPOOL	
CASING SPOOL	13-5/8" 3M X 11" 5M
CASING HEAD	8-5/8" SOW X 11" 5M

COASTAL OIL & GAS CORPORATION  
DRILLING PROGRAM

BIT PROGRAM

ROCK BIT & PDC BIT PROGRAM						
INTERVAL	HOLE	BIT MFG & MODEL	GPM	SERIAL	NZLS	COMMENTS
Surface Hole	11"	STC F27 or Equiv.	Air	NEW	3 - 18's	Air / Air Mist
Production Hole	7-7/8"	Various Inserts / PDC's	350-400	NEW	3 - 18's	Air / Air Mist / Water

GEOLOGICAL DATA

LOGGING:

Depth	Log Type
SC - TD	Platform Express with Sonic

MUD LOGGER:  
SAMPLES:  
CORING:  
DST:

2,000' - TD  
As per Geology

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MUD PROGRAM

WATER					
DEPTH	TYPE	MUD WT	LOSS	VISCOSITY	TREATMENT
0-2000	Air Mist	NA	NA		
SC-TD	Mist/Water/Mud	8.5-11.0	NC - <10 cc's	30-45	Champion Corrosion Chemicals Polymer, Lime, Brine, Barite

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,000 psi prior to drilling out. Test int. csg. to 1,500 psi prior to drilling out. 11" 5M with one 5M annular and 2 rams. Test to 5,000 psi (annular to 3,000 psi) prior to drilling out. Record on chart recorder & tour sheet. Function test rams on each trip. Maintain safety valve & inside BOP on rig floor at all times. Kelly to be equipped with upper & lower kelly valves. Corrosion treatment while drilling with air - RU160 then pump O<sub>2</sub> scavenger and proceed with scale inhibitor only. Run Totco survey every 1500' from surface casing shoe to TD. Maximum allowable hole angle is 5 degrees.

PROJECT ENGINEER:  
PROJECT MANAGER:

Christa Yin  
Darrell Molnar

DATE:  
DATE:



# **CULTURAL RESOURCE EVALUATIONS OF SIX PROPOSED COASTAL WELL LOCATIONS (NB Units 357, 358, 359, 361, 366, & 367) IN THE EAST BENCH LOCALITY OF UINTAH COUNTY, UTAH**

**Report Prepared for Coastal Oil & Gas Corporation**

**Department of Interior Permit No.: Ut-54937**

**Utah State Permit No.: Ut00AF0504b**

**AERC Project 1656 (COG00-21)**

**Author of Report:  
F. Richard Hauck, Ph.D**



## **ARCHEOLOGICAL-ENVIRONMENTAL RESEARCH CORPORATION**

**181 North 200 West, Suite 5 -- Bountiful, Utah 84010**

**P.O. Box 853, Bountiful, Utah 84011**

**Phone: (801) 292-7061, 292-9668      FAX: (801) 292-9668**

**E-mail: [ari@xmission.com](mailto:ari@xmission.com)      Web page: [www.ari-aerc.org](http://www.ari-aerc.org)**

**September 12, 2000**

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CULTURAL HERITAGE**

## **ABSTRACT**

An intensive cultural resource evaluation has been conducted for Coastal Oil & Gas Corporation of seven well locations (NB Units Nos. 351, 357, 358, 359, 361, 366, and 367) and the related pipeline and access corridors in the East Bench locality (see Maps 1 through 5) of Uintah County, Utah. About 84 acres of public lands in the locality were examined by AERC archaeologists during evaluations conducted on September 7, 2000.

No previously recorded cultural resources will be adversely affected by the proposed developments. Known cultural sites situated in the general region are not endangered by direct adverse effect relative to these developments because of their distance from the present project areas.

One isolated find was observed during evaluations in the vicinity of well pad NB Unit No. 357. This artifact consisted of a chalcedony biface tip; it was not collected.

AERC recommends project clearance based upon adherence to the stipulations noted in the final section of this report.

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## **GENERAL INFORMATION**

The Coastal Oil & Gas 2000 development program involves the construction of six well locations (NBUnit Nos. 351, 357, 358, 359, 361, 366, and 367) and their related pipeline and access corridors in the East Bench locality (see Maps 1 through 5) of Uintah County, Utah. About 84 acres of public lands in the locality were examined by AERC archaeologists during evaluations conducted on September 7, 2000. The project area is on federal land administered by the Bureau of Land Management office in Vernal, Utah. The project was conducted under Department of the Interior Permit No. UT-54937, which expires on January 31, 2001. The Utah State permit for this project is UT-00-AF-0504b.

The purpose of the field study and this report is to identify and document cultural site presence and determine cultural resource National Register eligibility relative to established criteria (cf., 36 CFR 60.6). Federal regulations require an environmental assessment of the potential development area. One aspect of such an assessment involves a Class I (records search) and Class III (intensive survey) archaeological evaluation of the development area. Such investigations are accomplished in compliance with the Antiquities Act of 1906, the Historic Sites Act of 1935, Section 106 of the National Historic Preservation Act of 1966, as amended, the National Environmental Policy Act of 1969, the Federal Land Policy and Management Act of 1976, the Archaeological Resources Protection Act of 1979, the Native American Religious Freedom Act of 1978, the Historic Preservation Act of 1980, and Executive Order 11593.

To accomplish this investigation, a total of 84 acres was examined by the archaeologists, who walked a series of 10 to 15 meter-wide transects within the six staked ten acre well pad zones and along the 100 foot-wide access/pipeline corridors.

All field notes and report information concerning this project are filed at the AERC office in Bountiful, Utah.

### **Project Location**

The project area is to the south of Vernal, Utah. The developments are located on East Bench on the Archy Bench and Big Pack Mtn NE USGS quads. The proposed development locations are situated as follows:

NBU No. 357 (see Map 2) is located in the SW of the SW quarter of Section 15, Township 10 South, Range 21 East, Salt Lake Base & Meridian. The combined access/pipeline corridor links into the existing system within the ten acre survey area.

NBU No. 358 (see Map 2) is located in the SE of the SW quarter of Section 16, Township 10 South, Range 21 East, Salt Lake Base & Meridian. This well pad is located along an existing road. The pipeline corridor exits from the east side of the pad and extends north for ca. .4 mile where it enters into the existing system.

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**MAP 1**  
**GENERAL PROJECT AREA IN**  
**UINTAH COUNTY, UTAH**



**PROJECT:** COG00-21  
**SCALE:** 1: 200,650  
**DATE:** 9/12/00



**PROJECT AREA**

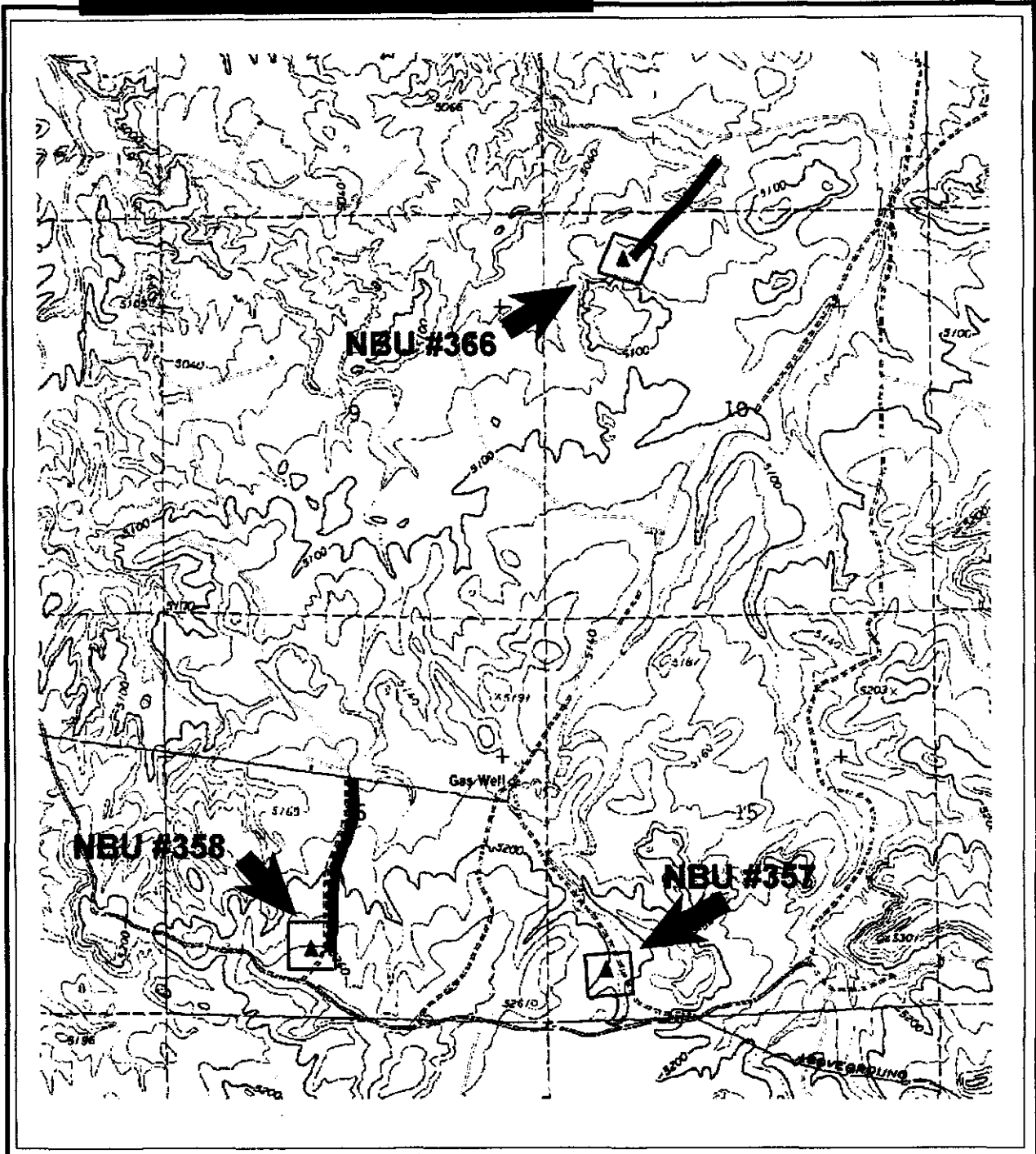
**TOWNSHIP:** multiple  
**RANGE:** multiple  
**MERIDIAN:** multiple

Utah Geological and Mineral Survey  
 Map 43 1977

Physiographic Subdivisions of Utah  
 by W.L. Stokes

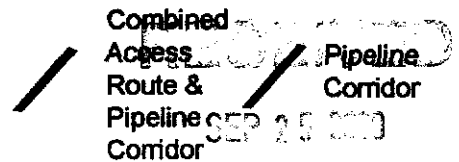
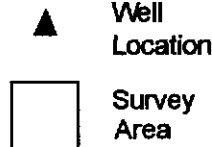
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PROJECT: COG00-21  
 SCALE: 1:24,000  
 QUAD: Big Pack Mtn. NE  
 DATE: September 12, 2000



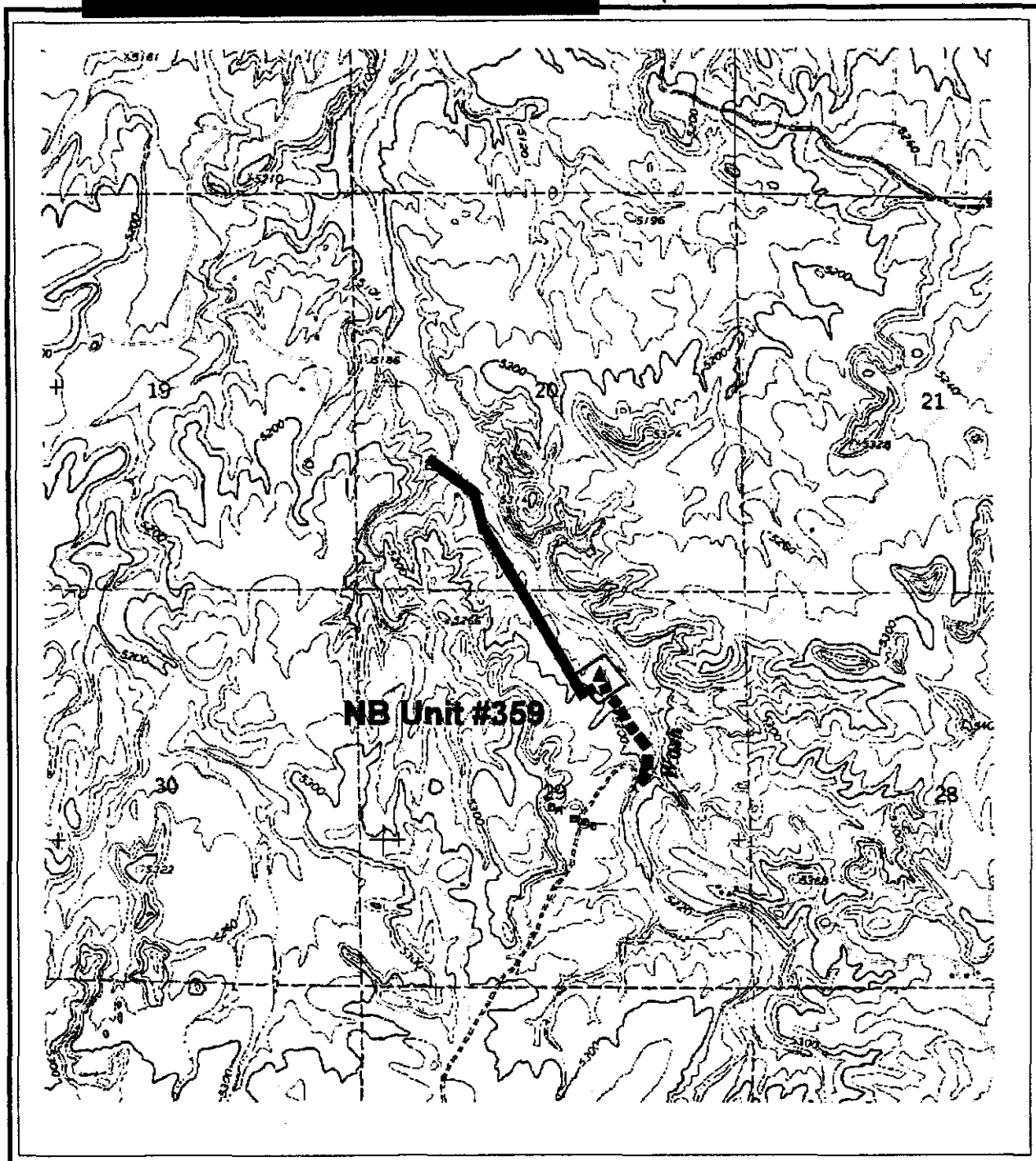
TOWNSHIP: 10 South  
 RANGE: 21 East  
 MERIDIAN: Salt Lake  
 B. & M.

LEGEND



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PROJECT: COG00-21  
 SCALE: 1:24,000  
 QUAD: Big Pack Mtn. NE  
 DATE: September 12, 2000



TOWNSHIP: 10 South  
 RANGE: 21 East  
 MERIDIAN: Salt Lake  
 B. & M.

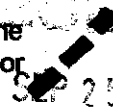
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Well  
 Location  
 Survey  
 Area



Pipeline  
 Corridor

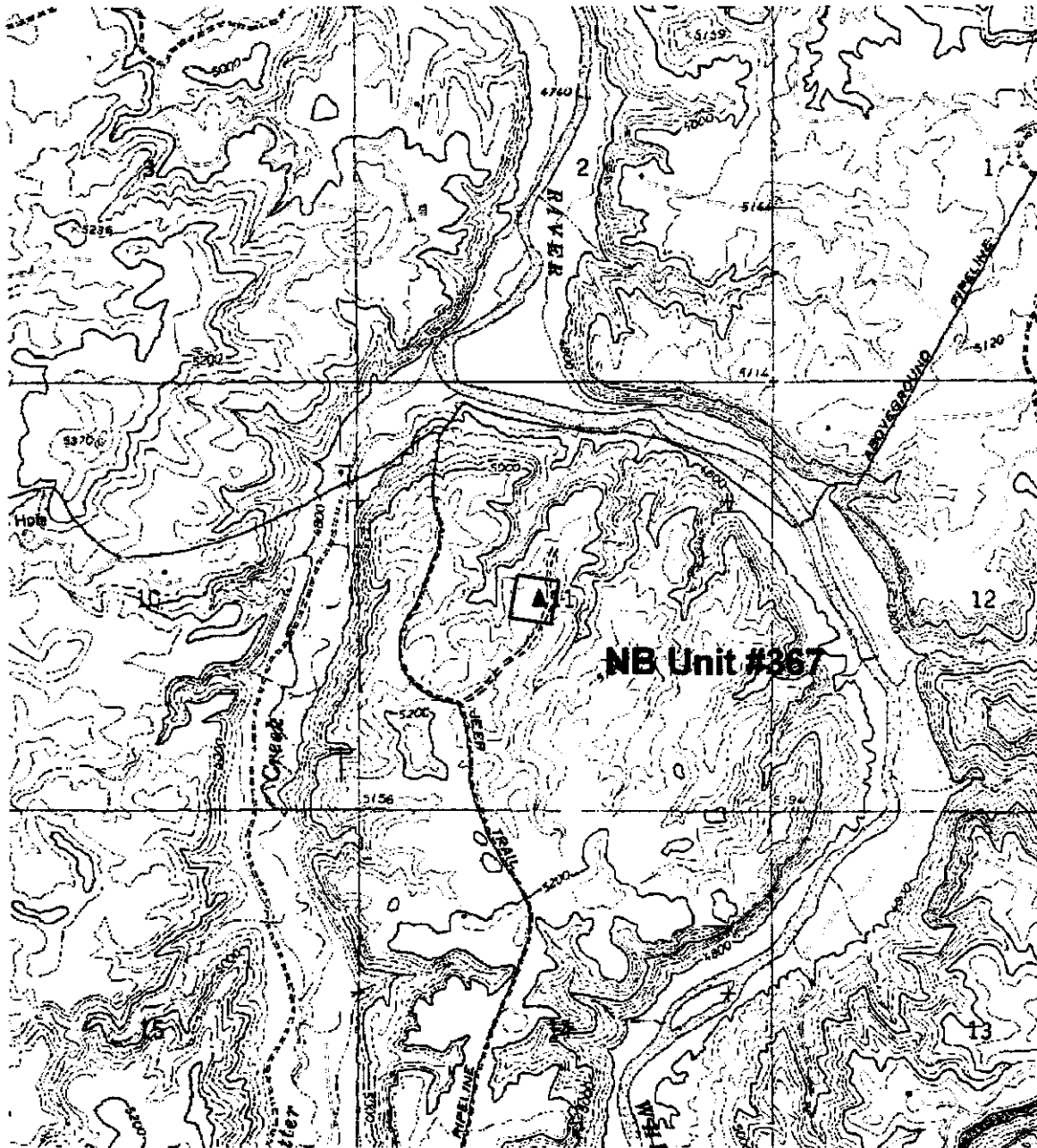


Access  
 Route

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



PROJECT: COG00-21  
 SCALE: 1:24,000  
 QUAD: Archy Bench  
 DATE: September 12, 2000

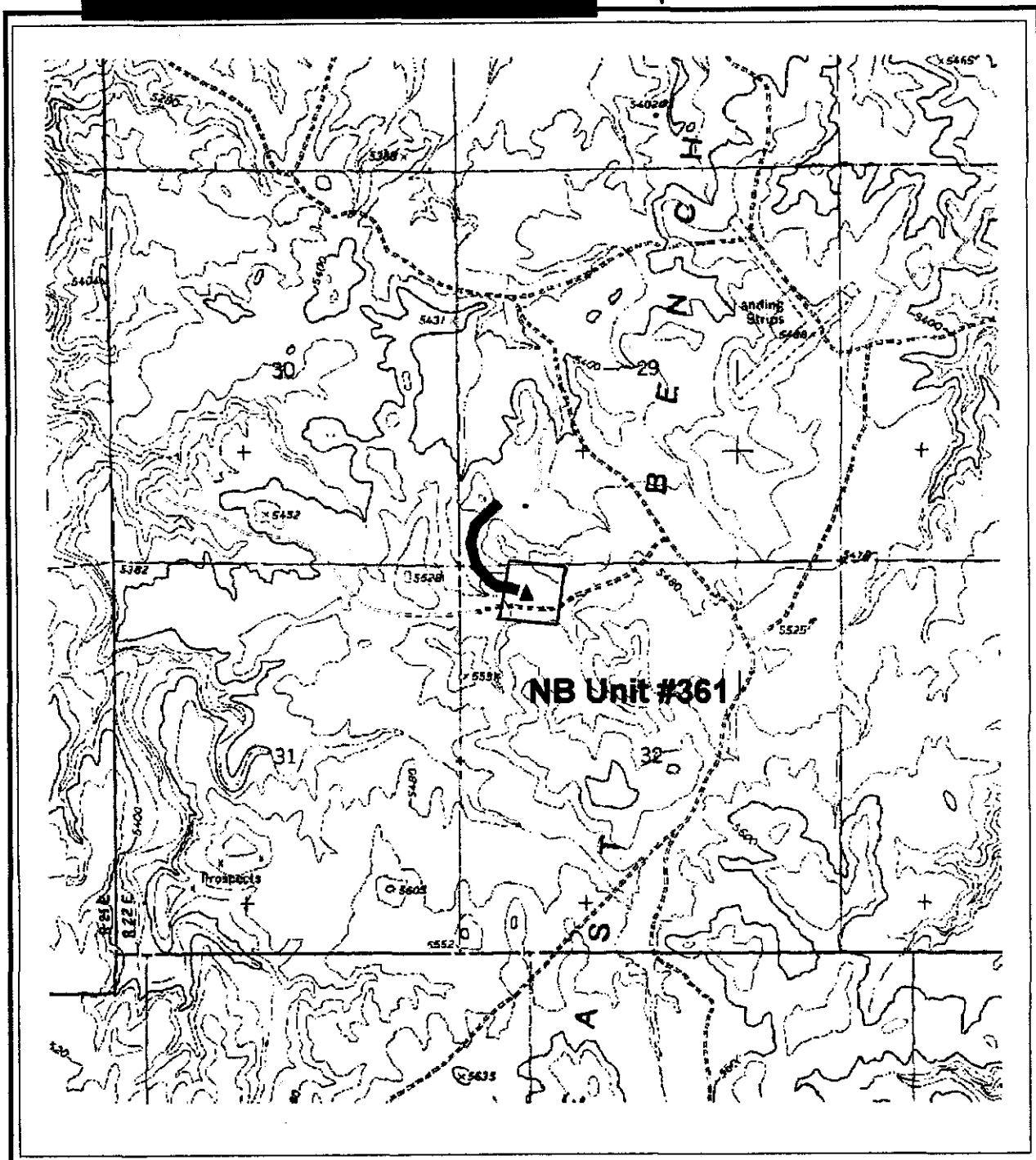


TOWNSHIP: 10 South  
 RANGE: 22 East  
 MERIDIAN: Salt Lake  
 B. & M.

# LEGEND

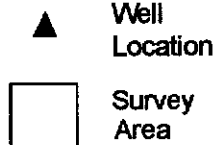
-  Well Location
-  Survey Area
-  DIVISION OF OIL, GAS AND MINING

PROJECT: COG00-21  
 SCALE: 1:24,000  
 QUAD: Archy Bench  
 DATE: September 12, 2000



TOWNSHIP: 10 South  
 RANGE: 22 East  
 MERIDIAN: Salt Lake  
 B. & M.

LEGEND



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 Pipeline  
 Corridor  
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NBU No. 359 (see Map 3) is located in the NW of the NE quarter of Section 29, Township 10 South, Range 21 East, Salt Lake Base & Meridian. Both the pipeline and the access road exit the well pad to the south. The road continues south for ca. .3 mile to link with the existing roadway. The .7 mile-long pipeline curves to the northwest to eventually link with an existing pipeline in the NW of the SW quarter of adjacent Section 20.

NBU No. 361 (see Map 5) is located in the NW of the NW quarter of Section 32, Township 10 South, Range 22 East, Salt Lake Base & Meridian. This well pad is located along an existing road. The pipeline corridor exits from the well pad and extends in a northerly course for ca. .4 mile to link into the existing pipeline system.

NBU No. 366 (see Map 2) is located in the NW of the NW quarter of Section 10, Township 10 South, Range 21 East, Salt Lake Base & Meridian. A .1 mile-long combined access/pipeline corridor extends northeast from the proposed well location the existing road. The pipeline continues to the northeast for ca. .2 mile to enter the main network.

NBU No. 367 (see Map 4) is located in the NE of the SW quarter of Section 11, Township 10 South, Range 22 East, Salt Lake Base & Meridian. This location immediately adjacent to an existing access road and pipeline.

#### **Environment**

The elevations for the proposed well locations range from 5060 to 5480 feet above sea level. Ephemeral drainages in the project area are associated with tributaries that drain southward into the Green River or the White River.

The vegetation of the project locality is primarily associated with the sage rangeland environment. Vegetation species commonly found in this general area include *Artemisia tridentata*, *Chrysothamnus nauseosus*, *Atriplex spp.*, *Sarcobatus vermiculatus*, *Opuntia polyacantha*, *Ephedra spp.* and various grasses including *Hordeum jubatum* and *Bromus tectorum*. Surrounding vegetation consists of *Artemisia tridentata* and *Ephedra spp.*

The project area is situated in the Uinta Formation and within the Colorado Plateau physiographic province.

#### **File Search**

Records searches were conducted in the Vernal BLM office on August 30, 2000 and at the SHPO in Salt Lake City on August 29, 2000. Earlier projects conducted in this general area include the following: 78-AF-0345, 81-BC-0721, 86-MM-0704, 91-GB-0796b, 97-MM-0157.

Two sites located by the searches, 42UT1792 and 42UT1953, are outside the current project area, and will not be affected by the proposed developments.

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Other archaeological consultants in addition to AERC and the local BLM archaeologists that have worked in the project area include personnel from Montgomery Archaeological Consultants, Alpine Archaeological Consultants, Nickens and Associates, Brigham Young University, and Grand River Institute.

Previous evaluations and area inventories indicate the occupation of the general project area has included prehistoric occupations (cultural affiliation unknown). For a comprehensive treatment of the prehistory and history of this general cultural area see Archaeological Evaluations in the Northern Colorado Plateau Cultural Area (Hauck 1991)

The National Register of Historic Places has been consulted and no registered historic or prehistoric properties will be affected by the proposed development.

### **STUDY OBJECTIVES AND EXPECTED RESULTS**

The purpose of this evaluation was to identify, evaluate, and record any cultural resources encountered within the proposed Coastal Oil & Gas development area; to determine the significance of identified resources; and to recommend appropriate mitigation measures relative to the preservation of resources found to be endangered by the project.

These objectives were accomplished by seeking surface indications of cultural resource presence. Cultural resource sites would be identified by the presence of three or more associated artifacts and/or features that demonstrate the presence of patterned human activity and then recorded on the appropriate IMACS forms.

The previous identification of prehistoric and historic cultural resources in the general area indicated a possibility that additional resources could be discovered during these evaluations.

No constraints, e.g., snow cover, dense vegetation, difficult weather, were imposed on the evaluation of this well location. The project was completed on September 6, 2000.

### **Site Potential in the Project Development Zone**

Previous archaeological evaluations in this general region have resulted in the identification and recording of limited archaeological resources in these four localities. Such prehistoric sites as have been recorded demonstrate a definitive selection of environmental community and water resource.

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## **FIELD EVALUATIONS**

### **Methodology**

To accomplish an intensive evaluation of the project areas shown on the maps, the archaeologists walked a series of 10 to 15 meter-wide transects within each ten acre staked location and along the various 30 meter-wide access/pipeline corridors. All together, a 100% pedestrian survey was conducted of about 84 acres.

When cultural materials are discovered, the archaeologist conducts a careful search of the vicinity to locate and evaluate features, artifact types and concentrations, site spatial associations, and temporal identifications. Sites and isolates are then recorded on the appropriate forms, locations sketched, perimeters marked on a topographic map, and photographs taken. Copies of these reports are provided to the appropriate State and Federal offices as attachments to the final report.

In certain instances, the cultural sites are then evaluated for depth potential utilizing AERC's portable Ground Penetrating Radar (GPR) computerized system (SIR-2 manufactured by Geophysical Survey Systems, Inc. [GSSI] of North Salem, New Hampshire). GPR was not used during this project.

Cultural sites are then evaluated for significance utilizing the standards described below and mitigation recommendations are considered as a means of preserving significant resources which may be situated within the development zone.

### **Site Significance Criteria**

The various criteria relative to establishing the eligibility of prehistoric and historic cultural sites preparatory to their potential nomination to the National Register of Historic Places have been outlined as follows in the National Register's Criteria for Evaluation as established in Title 36 CFR 60.6:

*The quality of significance in American ... archaeology ... and culture is present in ... sites ... that possess integrity of location, design, setting, materials, workmanship, feeling, and association and:*

- a. That are associated with events that have made a significant contribution to the broad patterns of our history; or*
- b. that are associated with the lives of persons significant in our past; or*
- c. that embody the distinctive characteristics of a type, period, or method of construction ... ; or*
- d. that have yielded, or may be likely to yield, information important in prehistory or history.*

In addition to satisfying one or more of these general conditions, a significant cultural resource site in Utah will generally be considered as being eligible for inclusion in the National

Register if it still retains its integrity and can contribute to our current state of knowledge concerning chronology, cultural relationships, origins, and cultural life ways of prehistoric or historic groups in the area.

In a final review of any site's cultural significance, the site must possess integrity and at least one of the above criteria to be considered eligible for nomination to the National Record of Historic Places.

### **Results of the Inventory**

During the survey of the various corridors and well locations referenced in this report, no cultural resources were encountered.


One isolated find was observed in the vicinity of well pad NBU No. 357. This artifact consisted of a chalcedony biface tip which was not collected.

No previously recorded cultural resources will be adversely affected by the proposed developments. Known cultural sites situated in the general region are not endangered by direct adverse effect relative to these developments because of their distance from the present project areas.

### **CONCLUSION AND RECOMMENDATIONS**

AERC recommends that a cultural resource clearance be granted to Coastal Oil & Gas Corporation relative to the development of NB Units Nos. 357, 358, 359, 361, 366, and 367 based upon adherence to the following stipulations:

1. All vehicle traffic, personnel movement, and construction should be confined to the flagged location, pipeline corridor or access route examined as referenced in this report, or to existing routes;
2. All personnel should refrain from collecting artifacts or from disturbing any cultural resources in the area; and
3. The principal authority should be consulted should cultural remains from subsurface deposits be exposed during exploratory and developmental work or if the need arises to relocate or otherwise alter the development area.

  
F. Richard Hauck, Ph.D.  
President and Principal  
Investigator

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## **BIBLIOGRAPHY**

Hauck, F. Richard

- 1991 Archaeological Evaluations on the Northern Colorado Plateau Cultural Area, AERC Paper No. 45, Archeological-Environmental Research Corporation, Bountiful.
- 2000 Cultural Resource Evaluations of Four Proposed Coastal Well Locations (CIGE Units Nos. 251, 252, 253, & 254) in the Cottonwood Wash Locality of Uintah County, Utah. Report prepared for Coastal Oil & Gas Corporation (COG00-22), Archeological-Environmental Research Corporation, Bountiful.

Hauck, F.R. and Garth Norman

- 1980 Final Report on the Mapco River Bend Cultural Mitigation Study. AERC Paper No. 18, of the Archeological-Environmental Research Corporation, Bountiful.

Stokes, W.L.

- 1977 Physiographic Subdivisions of Utah. Map 43, Utah Geological and Mineral Survey, Salt Lake City.

RECEIVED

SEP 25 1990

DIVISION OF  
CULTURAL RESOURCES

U.S.

Department of the Interior  
Bureau of Land Management  
Utah State Office  
(AERC FORMAT)  
Summary Report of  
Inspection for Cultural Resources

Project

Authorization No UT-00-0504b

Report Acceptable Yes ☐ No ☐  
Mitigation Acceptable Yes ☐ No ☐  
Comments: \_\_\_\_\_

**Cultural Resource Evaluation of Six Proposed Well Locations (NB Unit Nos. 357, 358, 359, 361, 366, 367) in Uintah County, Utah**

1. Report Title .....  
2. Development Company Coastal Oil & Gas Corporation  
3. Report Date 9/12/00 4. Antiquities Permit No. UT-00-54937  
5. Responsible Institution AERC COG00-21 County Uintah  
6. Fieldwork Location: TWN . 10 S . RNG . 21 E . Section 10, 15, 16, 29, , & TWN . 10 S . RNG . 22 E . Sections 11, 29, 32,  
7. Resource Area BC.

8. Description of Examination Procedures: *The archeologists, F.R. Hauck Alan Hutchinson and Greg Stoehr, intensively examined the six 10 acre parcels and associated access/pipeline routes (100 feet-wide) by walking a series of 15 to 20 meter-wide transects.*

9. Linear Miles Surveyed .....

10. Inventory Type I.

and/or

Definable Acres Surveyed .....

R = Reconnaissance

and/or

I = Intensive

Legally Undefinable

S = Statistical Sample

Acres Surveyed 84

11. Description of Findings:

12. Number Sites Found 0. (No sites = 0)

13. Collection: N. (Y = Yes, N = No)

14. Actual/Potential National Register Properties Affected:

*The National Register of Historic Places (NRHP) has been consulted and no registered properties will be affected by the proposed development.*

15. Literature Search, Location/ Date: Utah SHPO 08-29-00 Vernal BLM 08-30-00

16. Conclusion/ Recommendations:

*AERC recommends that a cultural resource clearance be granted to Coastal Oil & Gas Corporation for these proposed developments based on the following stipulations:*

- 1. All vehicular traffic, personnel movement, construction and restoration operations should be confined to the existing roadways and/or evaluated corridors.*
- 2. All personnel should refrain from collecting artifacts and from disturbing any significant cultural resources in the area.*
- 3. The authorized official should be consulted should cultural remains from subsurface deposits be exposed during construction work or if the need arises to relocate or otherwise alter the location of the development.*

17. Signature of Administrator & Field Supervisor:

Administrator:

Field

Supervisor:

UT 8100-3 (2/85)

*[Signature]*

RECEIVED

SEP 25 2000

SECTION OF  
CULTURAL RESOURCES



**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 09/25/2000

API NO. ASSIGNED: 43-047-33707

WELL NAME: NBU 367

OPERATOR: COASTAL OIL & GAS CORP ( N0230 )

CONTACT: CHERYL CAMERON

PHONE NUMBER: 435-781-7023

**PROPOSED LOCATION:**

NESW 11 100S 220E  
SURFACE: 2500 FSL 2220 FWL  
BOTTOM: 2500 FSL 2220 FWL  
UINTAH  
NATURAL BUTTES ( 630 )

LEASE TYPE: 3-State

LEASE NUMBER: U-01197-A-ST

SURFACE OWNER: 3-State

PROPOSED FORMATION: MVRD

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering	<i>GRB</i>	11/8/2000
Geology		11/14/2000
Surface		

**RECEIVED AND/OR REVIEWED:**

☒ Plat  
☒ Bond: Fed[] Ind[] Sta[3] Fee[]  
(No. 10 21 03 )  
☒ Potash (Y/N)  
☒ Oil Shale (Y/N) \*190 - 5 (B)  
☒ Water Permit  
(No. 43-8496 )  
☒ RDCC Review (Y/N)  
(Date: )  
☒ Fee Surf Agreement (Y/N)

**LOCATION AND SITING:**

☐ R649-2-3. Unit Natural Buttes  
☐ R649-3-2. General  
Siting: \_\_\_\_\_  
☐ R649-3-3. Exception  
☒ Drilling Unit  
Board Cause No: 173-14  
Eff Date: 12-2-99  
Siting: 460' to Unit Boundary & Uncomm Tract.  
☐ R649-3-11. Directional Drill

**COMMENTS:**

Need Presite. (10-12-00)  
NEED H<sub>2</sub>S PLAN (Rec'd 11-16-2000)

**STIPULATIONS:**

STATEMENT OF BASIS  
1. SURFACE CASING CEMENT SHALL FILL ANNULUS TO GROUND LEVEL  
OIL SHALE



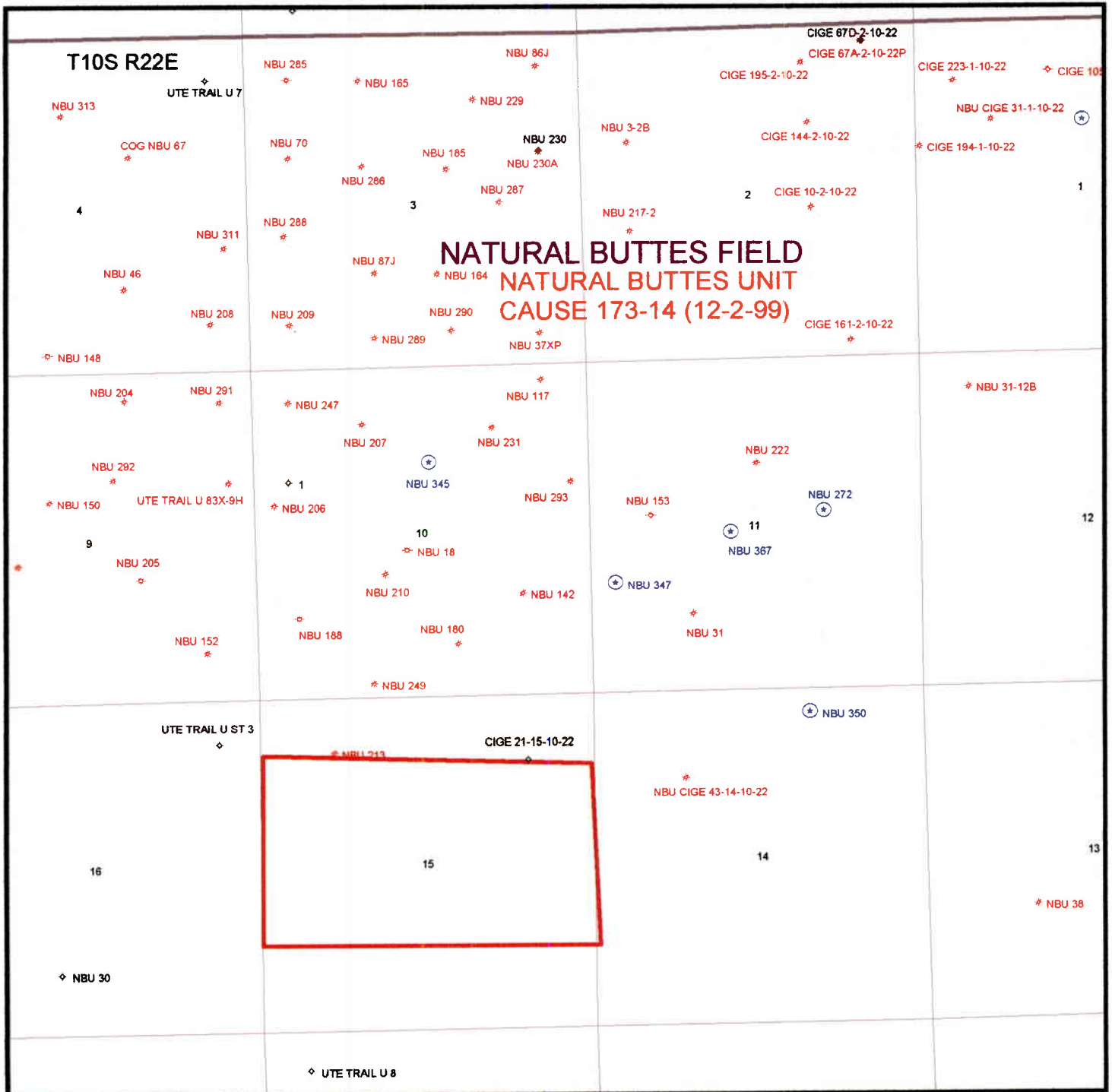
Utah Oil Gas and Mining

OPERATOR: COASTAL O&G CORP (N0230)

FIELD: NATURAL BUTTES (630)

SEC. 10 & 11, T10S, R22E,

COUNTY: UINTAH UNIT: NATURAL BUTTES  
CAUSE: 173-14



PREPARED BY: LCORDOVA  
DATE: 25-SEPTEMBER-2000

Well name:

**11-00 COASTAL NBU 367**Operator: **Coastal**String type: **Surface**

Project ID:

43-047-33707

Location: **Uintah County****Design parameters:****Collapse**

Mud weight: 9.000 ppg

Design is based on evacuated pipe.

**Minimum design factors:****Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No

Surface temperature: 75 °F

Bottom hole temperature: 103 °F

Temperature gradient: 1.40 °F/100ft

Minimum section length: 250 ft

Cement top: Surface

**Burst**

Max anticipated surface pressure:

0 psi

Internal gradient: 0.468 psi/ft

Calculated BHP 935 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)

8 Round LTC: 1.80 (J)

Buttress: 1.60 (J)

Premium: 1.50 (J)

Body yield: 1.50 (B)

Non-directional string.

Tension is based on buoyed weight.

Neutral point: 1,733 ft

**Re subsequent strings:**

Next setting depth: 7,500 ft

Next mud weight: 9.000 ppg

Next setting BHP: 3,506 psi

Fracture mud wt: 19.250 ppg

Fracture depth: 7,500 ft

Injection pressure 7,500 psi

Run Seq	Segment Length (ft)	Size (In)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (In)	Est. Cost ( )
1	2000	8.625	32.00	J-55	ST&C	2000	2000	7.875	20310
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	935	2530	2.706	935	3930	4.20	55	372	6.71 J

Prepared by: M HEBERTSON  
Utah Div. of Oil & MiningDate: November 8, 2000  
Salt Lake City, Utah

ENGINEERING STIPULATIONS: NONE SURF. CEMENT @ 20% HOLE WASHOUT,

Collapse strength is based on the Westcott, Dunlop &amp; Kemler method of biaxial correction for tension.

Collapse is based on a vertical depth of 2000 ft, a mud weight of 9 ppg The casing is considered to be evacuated for collapse purposes.

In addition, burst strength is biaxially adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name:

**11-00 COASTAL NBU 367**Operator: **Coastal**String type: **Production**

Project ID:

43-047-33707

Location: **Uintah County****Design parameters:****Collapse**

Mud weight: 11.000 ppg

Design is based on evacuated pipe.

**Minimum design factors:****Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No

Surface temperature: 75 °F

Bottom hole temperature: 205 °F

Temperature gradient: 1.40 °F/100ft

Minimum section length: 250 ft

Cement top: Surface

**Burst**

Max anticipated surface pressure:

0 psi

Internal gradient: 0.571 psi/ft

Calculated BHP 5,314 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)

8 Round LTC: 1.80 (J)

Buttress: 1.60 (J)

Premium: 1.50 (J)

Body yield: 1.50 (B)

Non-directional string.

Tension is based on buoyed weight.

Neutral point: 7,771 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost ( )
1	9300	4.5	11.60	P-110	LT&C	9300	9300	3.875	57028
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	5314	7580	1.426 ✓	5314	10694	2.01 ✓	90	279	3.10 J ✓

Prepared by: M HEBERTSON  
Utah Div. of Oil & MiningDate: November 8, 2000  
Salt Lake City, Utah

ENGINEERING STIPULATIONS: NONE SURF. CEMENT @ 20% HOLE WASHOUT, PROD CEMENT @ 130% HOLE WASHOUT.

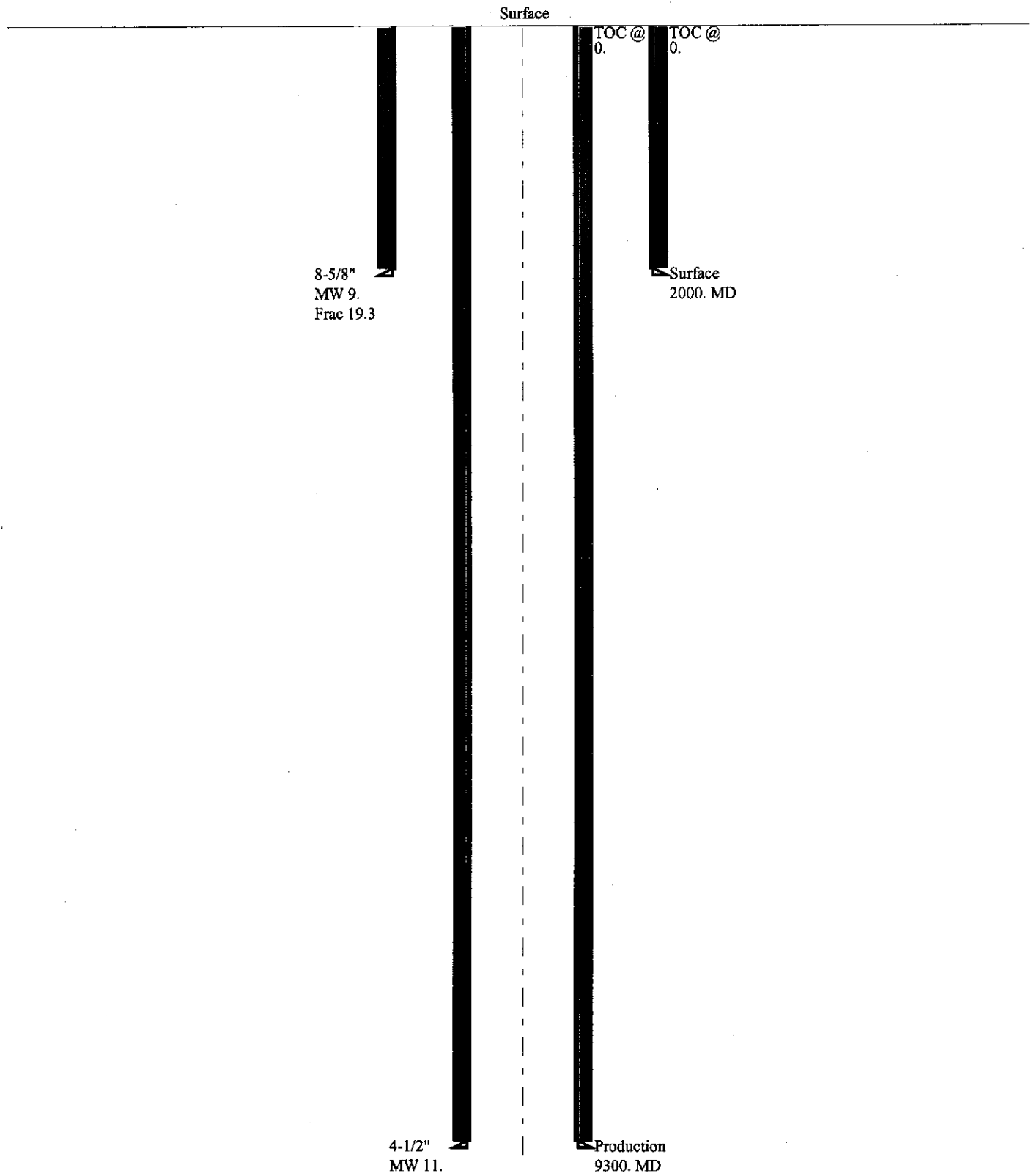
Collapse strength is based on the Westcott, Dunlop &amp; Kemler method of biaxial correction for tension.

Collapse is based on a vertical depth of 9300 ft, a mud weight of 11 ppg. The casing is considered to be evacuated for collapse purposes. In addition, burst strength is biaxially adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*

# 11-00 COASTAL NBU 17

## Casing Schematic



**DIVISION OF OIL, GAS AND MINING  
APPLICATION FOR PERMIT TO DRILL  
STATEMENT OF BASIS**

**Operator Name:** Coastal Oil & Gas Corporation  
**Name & Number:** NBU #367  
**API Number:** \_\_\_\_\_  
**Location:** 1/4, 1/4 NE/SW Sec. 11 T. 10S R. 22E

**Geology/Ground Water:**

Coastal proposes to set 2000' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 3,500'. A search of Division of Water Rights records shows 1 water well within a 10,000 foot radius of the center of section 11. This is listed as being used for mining. No culinary use is indicated. The well is approximately a mile in distance from the proposed well. Depth of this well is 1390'. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. Production casing cement should be brought to above the base of the moderately saline groundwater in order to isolate it from fresher waters uphole.

**Reviewer:** Brad Hill  
**Date:** 10/31/2000

**Surface:**

A presite investigation was done on 10/20/00 after being rained out the previous day. The surface and minerals belong to SITLA. SITLA was notified by DOGM of the onsite schedule but was unable to attend. It appears the location was staked north because of an adjacent canyon. Underlying sandstone outcropping in both adjacent canyons indicate potential seepage of fluids from reserve pit. Furthermore, the lower dike of the reserve pit (west side) is in cut and care should be taken to prevent a stability problem and fluids being lost toward river (berming around pit and location should be considered to contain any fluid releases. H2S was also mentioned as being a problem on the NBU #272 just one Qtr/Qtr east of here. Therefore, H2S safe guards should be utilized during the drilling process.

**Reviewer:** Dennis L. Ingram  
**Date:** 10/20/00

**Conditions of Approval/Application for Permit to Drill:**

1. A 20 mil pit liner be utilized in reserve pit with adequate padding to prevent fluid seepage.
2. A berm will be required below or around northern end of location to contain any spills; also adequate dike thickness on west side of reserve pit to positively stabilize and contain fluids.

# ON-SITE PREDRILL EVALUATION

## Division of Oil, Gas and Mining

OPERATOR: Coastal Oil & Gas Corporation  
WELL NAME & NUMBER: NBU #367  
API NUMBER: 43-047-33707  
LEASE: U-01197-A-ST FIELD/UNIT: Natural Buttes  
LOCATION: 1/4, 1/4 NE/SW Sec:11 TWP:10S RNG:22E 2220 FWL 2500 FSL  
LEGAL WELL SITING: 460' from Unit Boundary and uncommitted tracts.  
GPS COORD (UTM): No reading  
SURFACE OWNER: SITLA

### PARTICIPANTS

Dennis L. Ingram (DOGM); Carroll Estes; Carroll Williams; Debbie Harris; Don Dettererra; and Clay Enerson (Coastal Oil & Gas); Gary Scott (Jackson Construction); Robert Kay (Uinta Engineering); John Fausett (Fausett Inc.); Tim Justice (L&L Oilwell Services).

### REGIONAL/LOCAL SETTING & TOPOGRAPHY

Proposed site is set approximately 23.5 mile south and east of Ouray on a narrow ridge that slopes north/northeast. Bitter Creek is located 0.6 miles west of site and the White River drainage lies approximately 0.4 miles to the north with a 318 drop in elevation. (River can be viewed from proposed well site)

### SURFACE USE PLAN

CURRENT SURFACE USE: Wildlife, recreational hunting, rafting & fishing, and domestic grazing.

PROPOSED SURFACE DISTURBANCE: 170'x 325' plus reserve pit measuring 100'x100'.

LOCATION OF EXISTING WELLS WITHIN A 1 MILE RADIUS: NBU #217-2; NBU #37XP; NBU #117; NBU #231; NBU #293; NBU #18; NBU #142; NBU #180; NBU #222; NBU #153; NBU #31; GIGE #42; CIGE #161; NBU #31-12B

LOCATION OF PRODUCTION FACILITIES AND PIPELINES: All production Equipment shall remain on location. A 4" gas pipeline already in place on east side of location down access road.

SOURCE OF CONSTRUCTION MATERIAL: Native cut and fill or borrowed material.

ANCILLARY FACILITIES: None required or requested.

### WASTE MANAGEMENT PLAN:

Submitted to DOGM with Application to Drill

### ENVIRONMENTAL PARAMETERS

AFFECTED FLOODPLAINS AND/OR WETLANDS: Overlooking White River Drainage

FLORA/FAUNA: Shadscale, Prickly-Pear cactus, sagebrush habitat typical of region. Mule deer, antelope, mountain lion, black bear potential, coyotes, rabbits and other small birds and mammals.

SOIL TYPE AND CHARACTERISTICS: Light brown to tan sandy loam with some clay present.

SURFACE FORMATION & CHARACTERISTICS: Uinta Formation

EROSION/SEDIMENTATION/STABILITY: minor erosion, some sedimentation, No stability problems anticipated other than reserve pit berm in cut overlooking drainage to river.

PALEONTOLOGICAL POTENTIAL: None observed during onsite meeting

RESERVE PIT

CHARACTERISTICS: West side of lease with downhill berm in fill and measuring 100'x 100'x 10' deep and upwind of prevailing winds.

LINER REQUIREMENTS (Site Ranking Form attached): 25 points

SURFACE RESTORATION/RECLAMATION PLAN

Shall be restored according to SITLA requirements at time of reclamation.

SURFACE AGREEMENT: Yes

CULTURAL RESOURCES/ARCHAEOLOGY: Done by AERC

OTHER OBSERVATIONS/COMMENTS

Sandstone outcropping on east and west side of canyons, both running north. Could see White River from location. A 4" gas pipeline running north/south along access road.

ATTACHMENTS:

Photos #24. Staking; #25. South looking north; #26. Canyon to west of reserve pit (rocky outcropping); #27. White River to north in distance; #28. Surface cover; #29. North look south across location; #30. Ditto; #31. From location look northeast at canyon on northeast.

Dennis L. Ingram  
DOGM REPRESENTATIVE

10/12/00 2:30 PM  
DATE/TIME



**Evaluation Ranking Criteria and Ranking Score  
For Reserve and Onsite Pit Liner Requirements**

<u>Site-Specific Factors</u>	<u>Ranking</u>	<u>Site Ranking</u>
Distance to Groundwater (feet)		
>200	0	
100 to 200	5	
75 to 100	10	
25 to 75	15	
<25 or recharge area	20	<u>0</u>
Distance to Surf. Water (feet)		
>1000	0	
300 to 1000	2	
200 to 300	10	
100 to 200	15	
< 100	20	<u>0</u>
Distance to Nearest Municipal Well (feet)		
>5280	0	
1320 to 5280	5	
500 to 1320	10	
<500	15	<u>0</u>
Distance to Other Wells (feet)		
>1320	0	
300 to 1320	10	
<300	20	<u>0</u>
Native Soil Type		
Low permeability	0	
Mod. permeability	10	
High permeability	20	<u>20</u>
Fluid Type		
Air/mist	0	
Fresh Water	5	
TDS >5000 and <10000	15	
TDS >10000 or Oil Base	20	
Mud Fluid containing high levels of hazardous constituents		<u>5</u>
Drill Cuttings		
Normal Rock	0	
Salt or detrimental	10	<u>0</u>
Annual Precipitation (inches)		
<10	0	
10 to 20	5	
>20	10	<u>0</u>
Affected Populations		
<10	0	
10 to 30	6	
30 to 50	8	
>50	10	<u>0</u>
Presence of Nearby Utility		
Conduits		
Not Present	0	
Unknown	10	
Present	15	<u>0</u>
<b>Final Score (Level II Sensitivity)</b>		<u>25 points</u>













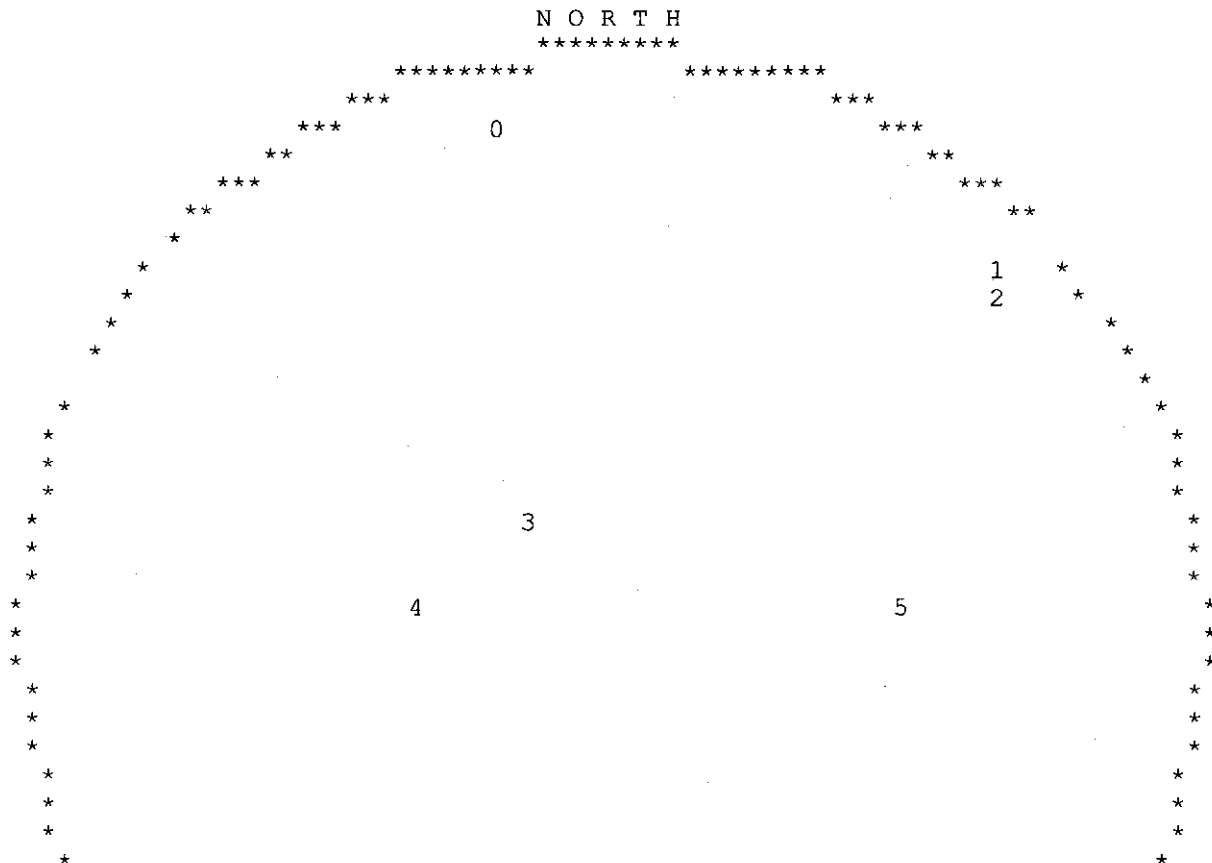


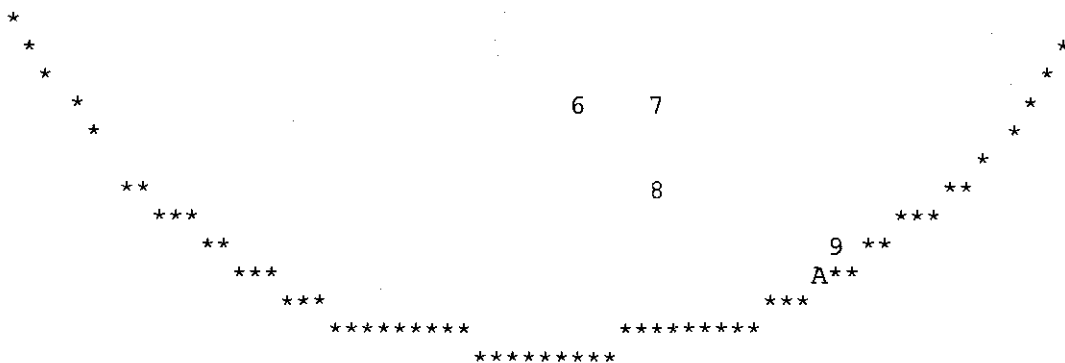


UTAH DIVISION OF WATER RIGHTS  
WATER RIGHT POINT OF DIVERSION PLOT CREATED TUE, NOV 7, 2000, 2:56 PM  
PLOT SHOWS LOCATION OF 16 POINTS OF DIVERSION

PLOT OF AN AREA WITH A RADIUS OF 10000 FEET FROM A POINT  
FEET, FEET OF THE CT CORNER,  
SECTION 11 TOWNSHIP 10S RANGE 22E SL BASE AND MERIDIAN

PLOT SCALE IS APPROXIMATELY 1 INCH = 4000 FEET





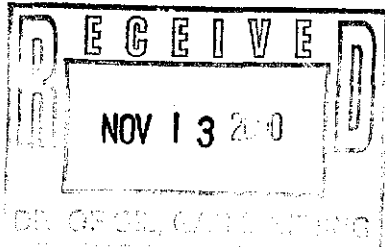
UTAH DIVISION OF WATER RIGHTS  
NWPLAT POINT OF DIVERSION LOCATION PROGRAM

MAP CHAR	WATER RIGHT	QUANTITY CFS	AND/OR AC-FT	SOURCE DESCRIPTION DIAMETER	or WELL INFO DEPTH	POINT OF DIVERSION DESCRIPTION YEAR LOG NORTH EAST	CNR SEC	TWN	RNG B&M
0	49 862	.0000	.00	White River					
				WATER USE(S): STOCKWATERING OTHER					PRIORITY DATE: 00/00/190
				USA Bureau of Land Management	2370 South 2300 West				Salt Lake City
0	49 863	.0000	.00	White River					
				WATER USE(S): STOCKWATERING OTHER					PRIORITY DATE: 00/00/190
				USA Bureau of Land Management	2370 South 2300 West				Salt Lake City
1	49 611	.0000	.30	Chapita Wells Reservoir #1		S 1650 E 1100	N4 1	10S	22E SL
				WATER USE(S): STOCKWATERING OTHER					PRIORITY DATE: 00/00/186
				USA Bureau of Land Management	2370 South 2300 West				Salt Lake City
2	49 612	.0000	1.00	Chapita Wells Reservoir #2		S 2300 E 1200	N4 1	10S	22E SL
				WATER USE(S): STOCKWATERING OTHER					PRIORITY DATE: 00/00/186
				USA Bureau of Land Management	2370 South 2300 West				Salt Lake City
3	49 304	.0000	105000.00	White River & tributaries		S 555 E 1290	NW 11	10S	22E SL

		WATER USE(S): DOMESTIC POWER OTHER							PRIORITY DATE: 05/19/196
		State of Utah Board of Water Resources	1594 West North Temple, Ste 310						Salt Lake City
3	49 113	.0000 250000.00 White River & Tributaries	S 555 E 1290	NW 11 10S 22E SL					
		WATER USE(S): DOMESTIC MINING POWER						PRIORITY DATE: 05/19/196	
		State of Utah Board of Water Resources	1594 West North Temple, Ste 310						Salt Lake City
3	49 1272	.0000 1500.00 White River & Tribs. & Undergr	S 555 E 1290	NW 11 10S 22E SL					
		WATER USE(S): DOMESTIC OTHER						PRIORITY DATE: 05/19/196	
		State of Utah Board of Water Resources	1594 West North Temple, Ste 310						Salt Lake City
4	49 903	.0000 .00 Bitter Creek							
		WATER USE(S): STOCKWATERING OTHER						PRIORITY DATE: 00/00/190	
		USA Bureau of Land Management	2370 South 2300 West						Salt Lake City
5	49 353	.4000 .00 7 1390	S 2128 E 2313	NW 12 10S 22E SL					
		WATER USE(S): MINING OTHER						PRIORITY DATE: 07/10/197	
		Tosco Corporation	10100 Santa Monica Blvd						Los Angeles
6	49 859	.0000 .00 White River							
		WATER USE(S): STOCKWATERING OTHER						PRIORITY DATE: 00/00/190	
		USA Bureau of Land Management	2370 South 2300 West						Salt Lake City
7	49 861	.0000 .00 White River							
		WATER USE(S): STOCKWATERING OTHER						PRIORITY DATE: 00/00/190	
		USA Bureau of Land Management	2370 South 2300 West						Salt Lake City
8	49 861	.0000 .00 White River							
		WATER USE(S): STOCKWATERING OTHER						PRIORITY DATE: 00/00/190	
		USA Bureau of Land Management	2370 South 2300 West						Salt Lake City
9	49 113	.0000 250000.00 White River & Tributaries	S 65 W 327	N4 24 10S 22E SL					
		WATER USE(S): DOMESTIC MINING POWER						PRIORITY DATE: 05/19/196	
		State of Utah Board of Water Resources	1594 West North Temple, Ste 310						Salt Lake City
9	49 304	.0000 105000.00 White River & tributaries	S 65 W 327	N4 24 10S 22E SL					
		WATER USE(S): DOMESTIC POWER OTHER						PRIORITY DATE: 05/19/196	
		State of Utah Board of Water Resources	1594 West North Temple, Ste 310						Salt Lake City
9	49 1272	.0000 1500.00 White River & Tribs. & Undergr	S 65 W 327	N4 24 10S 22E SL					
		WATER USE(S): DOMESTIC OTHER						PRIORITY DATE: 05/19/196	
		State of Utah Board of Water Resources	1594 West North Temple, Ste 310						Salt Lake City
A	49 859	.0000 .00 White River							
		WATER USE(S): STOCKWATERING OTHER						PRIORITY DATE: 00/00/190	
		USA Bureau of Land Management	2370 South 2300 West						Salt Lake City



November 13, 2000



State of Utah  
Division of Oil Gas & Mining  
1594 West North Temple, Suite 1210  
P.O. Box 145801  
Salt Lake City, UT 84114

**ATTENTION: Lisha Cordova**

Dear Lisha,

The location for the NBU #367 proposed well to be drilled in the NE/SW Sec. 11, T10S, R22E, Uintah County, Utah is 2500' FSL & 2220' FWL of said Sec. 11. This location is not within 460 feet from the boundary of the Natural Buttes Unit, nor is it within 460 feet of any non-committed tract lying within the boundaries of the Unit.

If you have questions or need additional information, please do not hesitate to call me, (435) 781-7023.

Sincerely,

  
Cheryl Cameron  
Sr. Regulatory Analyst

**Coastal Oil & Gas Corporation**

A SUBSIDIARY OF THE COASTAL CORPORATION  
1368 S. 1200 E - P.O. BOX 1148 - VERNAL UT 84078 • 435/789-4433 • FAX 435/789-4136

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB NO. 1004-0135  
Expires: November 30, 2000

## SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

## 1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

## 2. Name of Operator

Coastal Oil &amp; Gas Corporation

## 3a. Address

P.O. Box 1148, Vernal UT 84078

## 3b. Phone No. (include area code)

(435) 781-7023

## 4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

NE/SW Sec. 11, T10S, R22E

2500' FSL &amp; 2220' FWL

## 5. Lease Serial No.

U-01197-A-ST

## 6. If Indian, Allottee or Tribe Name

N/A

## 7. If Unit or CA/Agreement, Name and/or No.

Natural Buttes Unit

## 8. Well Name and No.

NEU #367

## 9. API Well No.

## 10. Field and Pool, or Exploratory Area

Natural Buttes Field

## 11. County or Parish, State

Uintah

Utah

## 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

## TYPE OF SUBMISSION

☒ Notice of Intent☐ Subsequent Report☐ Final Abandonment Notice

## TYPE OF ACTION

☐ Acidize☐ Alter Casing☐ Casing Repair☐ Change Plans☐ Convert to Injection☐ Deepen☐ Fracture Treat☐ New Construction☐ Plug and Abandon☐ Plug Back☐ Production (Start/Resume)☐ Reclamation☐ Recomplete☐ Temporarily Abandon☐ Water Disposal☐ Water Shut-Off☐ Well Integrity☒ Other

Location Layout

Revision

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

Please refer to the attached revised Location Layout as discussed during the  
Onsite Inspection.

RECEIVED

NOV 13 2000

DIVISION OF  
OIL, GAS AND MINING14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)

Cheryl Cameron

Title

Sr. Regulatory Analyst

Date 11/3/00

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or  
certify that the applicant holds legal or equitable title to those rights in the subject lease  
which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes it a crime for any person knowingly and willfully to make to any department or agency of the United  
States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

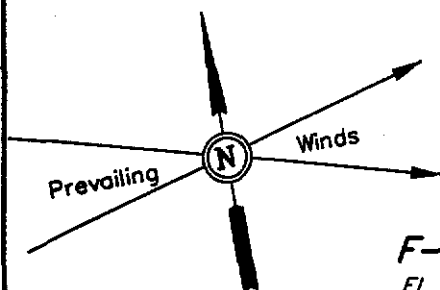
# COASTAL OIL & GAS CORP.

## LOCATION LAYOUT FOR

NBU #367

SECTION 11, T10S, R22E, S.L.B.&M.

2500' FSL 2220' FWL



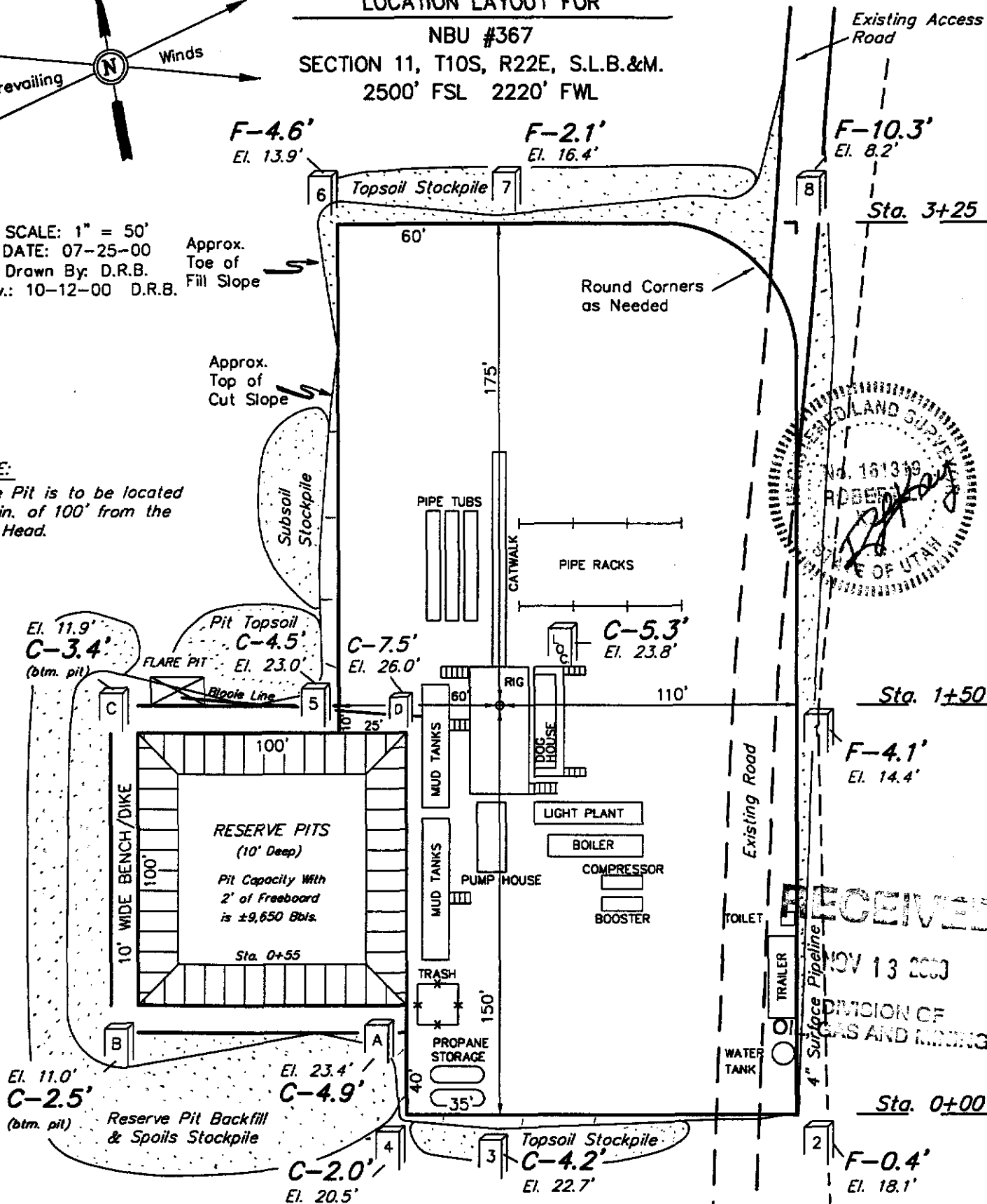
SCALE: 1" = 50'  
DATE: 07-25-00  
Drawn By: D.R.B.  
Rev.: 10-12-00 D.R.B.

Approx.  
Toe of  
Fill Slope

Approx.  
Top of  
Cut Slope

### NOTE:

Flare Pit is to be located  
a min. of 100' from the  
Well Head.



### NOTES:

Elev. Ungraded Ground At Loc. Stake = 5123.8'

FINISHED GRADE ELEV. AT LOC. STAKE = 5118.5'

FIGURE #1

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East • Vernal, Utah 84078 • (435) 789-1017



November 14, 2000

State of Utah  
Department of Natural Resources  
Division of Oil Gas & Mining  
1594 West North Temple  
P.O. Box 145801  
Salt Lake City, UT 84114-5801


**ATTENTION: Brad Hill**

Dear Brad,

Enclosed is the H<sub>2</sub>S Contingency Plan for the NBU #367 location that you requested.

If you have questions or need additional information, please do not hesitate to call me,  
(435) 781-7023.

Sincerely,

  
Cheryl Cameron  
Sr. Regulatory Analyst

**Coastal Oil & Gas Corporation**

A SUBSIDIARY OF THE COASTAL CORPORATION  
1368 S 1200 E • P.O. BOX 1148 • VERNAL UT 84078 • 435/789-4433 • FAX 435/789-4436

**RECEIVED**

NOV 16 2000

**DIVISION OF  
OIL, GAS AND MINING**



**State of Utah**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor

Kathleen Clarke  
Executive Director

Lowell P. Braxton  
Division Director

1594 West North Temple, Suite 1210

PO Box 145801

Salt Lake City, Utah 84114-5801

801-538-5340

801-359-3940 (Fax)

801-538-7223 (TDD)

November 16, 2000

Coastal Oil and Gas Corporation  
PO Box 1148  
Vernal, UT 84078

Re: Natural Buttes Unit 367 Well, 2500' FSL, 2220' FWL, NE SW, Sec. 11, T. 10 South,  
R. 22 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-33707.

Sincerely,

John R. Baza  
Associate Director

er

Enclosures

cc: Uintah County Assessor  
Bureau of Land Management, Vernal Field Office  
SITLA



Operator: Coastal Oil and Gas Corporation  
Well Name & Number Natural Buttes Unit 367  
API Number: 43-047-33707  
Lease: U 01197-A-ST

Location: NE SW Sec. 11 T. 10 South R. 22 East

### Conditions of Approval

1. **General**

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.

2. **Notification Requirements**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- 24 hours prior to cementing or testing casing
- 24 hours prior to testing blowout prevention equipment
- 24 hours prior to spudding the well
- within 24 hours of any emergency changes made to the approved drilling program
- prior to commencing operations to plug and abandon the well

The following are Division of Oil, Gas and Mining contacts and their work telephone numbers (please leave a voice mail message if the person is not available to take the call):

- Dan Jarvis at (801) 538-5338
- Carol Daniels at (801) 538-5284 (spud)

3. **Reporting Requirements**

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.

5. In accordance with Order in Cause No. 190-5(b) dated October 28, 1982, the Operator shall comply with requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operator shall ensure that the surface and/or production casing is properly cemented over the entire oil shale interval as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the Division.

6. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)

7. Surface casing cement shall fill annulus to ground level.

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER:

6. IF INDIAN ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

8. WELL NAME and NUMBER:

Exhibit "A"

9. API NUMBER:

10. FIELD AND POOL, OR WILDCAT:

1. TYPE OF WELL

OIL WELL ☐

GAS WELL ☐

OTHER \_\_\_\_\_

2. NAME OF OPERATOR:

El Paso Production Oil & Gas Company

3. ADDRESS OF OPERATOR:

8 South 1200 East CITY Vernal

STATE Utah ZIP 84078

PHONE NUMBER:

435-789-4433

4. LOCATION OF WELL

FOOTAGES AT SURFACE:

COUNTY:

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE:

UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

☐ NOTICE OF INTENT  
(Submit in Duplicate)

Approximate date work will start:

☐ SUBSEQUENT REPORT  
(Submit Original Form Only)

Date of work completion:

☐ ACIDIZE

☐ ALTER CASING

☐ CASING REPAIR

☐ CHANGE TO PREVIOUS PLANS

☐ CHANGE TUBING

☐ CHANGE WELL NAME

☐ CHANGE WELL STATUS

☐ COMMINGLE PRODUCING FORMATIONS

☐ CONVERT WELL TYPE

☐ DEEPEN

☐ FRACTURE TREAT

☐ NEW CONSTRUCTION

☐ OPERATOR CHANGE

☐ PLUG AND ABANDON

☐ PLUG BACK

☐ PRODUCTION (START/RESUME)

☐ RECLAMATION OF WELL SITE

☐ RECOMPLETE - DIFFERENT FORMATION

☐ REPERFORATE CURRENT FORMATION

☐ SIDETRACK TO REPAIR WELL

☐ TEMPORARILY ABANDON

☐ TUBING REPAIR

☐ VENT OR FLARE

☐ WATER DISPOSAL

☐ WATER SHUT-OFF

☒ OTHER: Name Change

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

As a result of the merger between The Coastal Corporation and a wholly owned subsidiary of El Paso Energy Corporation, the name of Coastal Oil & Gas Corporation has been changed to El Paso Production Oil & Gas Company effective March 9, 2001.

See Exhibit "A"

Bond # 400JU0708

Coastal Oil & Gas Corporation

NAME (PLEASE PRINT)

John T. Elzner

TITLE Vice President

SIGNATURE

DATE 06-15-01

El Paso Production Oil & Gas Company

NAME (PLEASE PRINT)

John T. Elzner

TITLE Vice President

SIGNATURE

DATE 06-15-01

(This space for State use only)

RECEIVED

JUN 19 2001

DIVISION OF  
OIL, GAS AND MINING

(See Instructions on Reverse Side)

State of Delaware  
*Office of the Secretary of State*

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PAGE 1

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "COASTAL OIL & GAS CORPORATION", CHANGING ITS NAME FROM "COASTAL OIL & GAS CORPORATION" TO "EL PASO PRODUCTION OIL & GAS COMPANY", FILED IN THIS OFFICE ON THE NINTH DAY OF MARCH, A.D. 2001, AT 11 O'CLOCK A.M.

RECEIVED

MAR 1 2001

DIVISION OF  
OIL GAS AND MINING



*Harriet Smith Windsor*  
*Harriet Smith Windsor, Secretary of State*

0610204 8100

AUTHENTICATION: 1061007

010162788

DATE: 04-03-01

**CERTIFICATE OF AMENDMENT  
OF  
CERTIFICATE OF INCORPORATION**

COASTAL OIL & GAS CORPORATION (the "Company"), a corporation organized and existing under and by virtue of the General Corporation Law of the State of Delaware, DOES HEREBY CERTIFY:

FIRST: That the Board of Directors of the Company, by the unanimous written consent of its members, filed with the minutes of the Board, adopted a resolution proposing and declaring advisable the following amendment to the Certificate of Incorporation of the Company:

RESOLVED that it is deemed advisable that the Certificate of Incorporation of this Company be amended, and that said Certificate of Incorporation be so amended, by changing the Article thereof numbered "FIRST," so that, as amended, said Article shall be and read as follows:

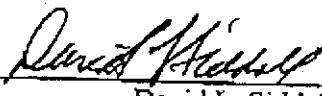
"FIRST. The name of the corporation is El Paso Production Oil & Gas Company."

SECOND: That in lieu of a meeting and vote of stockholders, the stockholders entitled to vote have given unanimous written consent to said amendment in accordance with the provisions of Section 228 of the General Corporation Law of the State of Delaware.

THIRD: That the aforesaid amendment was duly adopted in accordance with the applicable provisions of Sections 242 and 228 of the General Corporation Law of the State of Delaware.

IN WITNESS WHEREOF, said COASTAL OIL & GAS CORPORATION has caused this certificate to be signed on its behalf by a Vice President and attested by an Assistant Secretary, this 9th day of March 2001.

COASTAL OIL & GAS CORPORATION

  
\_\_\_\_\_  
David L. Siddall  
Vice President

Attest:

  
\_\_\_\_\_  
Margaret E. Roark, Assistant Secretary

**RECEIVED**

STATE OF DELAWARE  
SECRETARY OF STATE  
DIVISION OF CORPORATIONS  
FILED 11:00 AM 03/09/2001  
010118394 - 0610204

JUN 19 2001

DIVISION OF  
OIL, GAS AND MINING



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155

**RECEIVED**

JUL 12 2001

DIVISION OF  
OIL, GAS AND MINING

In Reply Refer To:  
3106  
UTSL-065841  
(UT-924)

JUL 10 2001

### NOTICE

El Paso Production Oil & Gas Company : Oil and Gas  
Nine Greenway Plaza :  
Houston TX 77046-0095 :

#### Name Change Recognized

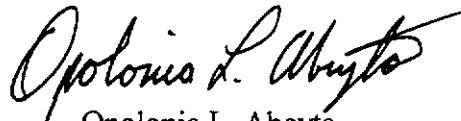
Acceptable evidence has been received in this office concerning the name change of Coastal Oil & Gas Corporation into El Paso Production Oil & Gas Company with El Paso Production Oil & Gas Company being the surviving entity.

For our purposes, the name change is recognized effective March 9, 2001.

The oil and gas lease files identified on the enclosed exhibit have been noted as to the name change. The exhibit was compiled from a list of leases obtained from our computer program. We have not abstracted the lease files to determine if the entities affected by this name change hold an interest in the leases identified nor have we attempted to identify leases where the entities are the operator on the ground maintaining no vested recorded title or operating rights interests. We will be notifying the Minerals Management Service and all applicable Bureau of Land Management offices of the change by a copy of this notice. If additional documentation for changes of operator are required by our Field Offices, you will be contacted by them.

If you identify additional leases in which the entities maintain an interest, please contact this office and we will appropriately document those files with a copy of this Notice.

Due to the name change, the name of the principal/obligor on the bond is required to be changed from Coastal Oil & Gas Corporation to El Paso Production Oil & Gas Company. You may accomplish this either by consent of surety rider on the original bond or a rider to the original bond. The bonds are held in Wyoming and Colorado.



Opolonia L. Abeyta  
Acting Chief, Branch of  
Minerals Adjudication

Enclosure

1. Exhibit of Leases (1 pp)

cc: Moab Field Office  
Vernal Field Office  
MMS, Reference Data Branch, MS3130, PO Box 5860, Denver CO 80217  
~~State of Utah~~, DOGM, Attn: Jim Thompson (Ste. 1210), Box 145801, SLC UT 84114  
Teresa Thompson (UT-922)  
Joe Incardine (UT-921)

### Exhibit of Leases

UTUSL-065841A	UTU-47172	UTU-74415	UTU-53860
UTU-28652	UTU-50687	UTU-74416	UTU-66401
UTU-37943	UTU-52298	UTU-75091	UTU-67868
UTU-44089	UTU-0109054	UTU-75096	UTU-65389
UTU-44090A	UTU-0143511	UTU-75097	UTU-77084
UTU-61263	UTU-0143512	UTU-75673	UTU-61430
UTU-00343	UTU-38401	UTU-76259	UTU-72633
UTU-02651	UTU-38411	UTU-76260	UTU-72650
UTU-02651B	UTU-38418	UTU-76261	UTU-49692
UTU-0142175	UTU-38419	UTU-76493	UTU-57894
UTU-70235	UTU-38420	UTU-76495	UTU-76829
UTU-70406	UTU-38421	UTU-76503	UTU-76830
UTU-74954	UTU-38423	UTU-78228	UTU-76831
UTU-75132	UTU-38424	UTU-78714	
UTU-75699	UTU-38425	UTU-78727	
UTU-76242	UTU-38426	UTU-78734	
UTU-78032	UTU-38427	UTU-79012	
UTU-4377	UTU-38428	UTU-79011	
UTU-4378	UTU-53861	UTU-71694	
UTU-7386	UTU-58097	UTU-00576	
UTU-8344A	UTU-64376	UTU-00647	
UTU-8345	UTU-65222	UTU-01470D	
UTU-8347	UTU-65223	UTU-0136484	
UTU-8621	UTU-66746	UTU-8344	
UTU-14646	UTU-67178	UTU-8346	
UTU-15855	UTU-67549	UTU-8648	
UTU-25880	UTU-72028	UTU-28212	
UTU-28213	UTU-72632	UTU-30289	
UTU-29535	UTU-73009	UTU-31260	
UTU-29797	UTU-73010	UTU-33433	
UTU-31736	UTU-73013	UTU-34711	
UTU-34350	UTU-73175	UTU-46699	
UTU-34705	UTU-73434	UTU-78852	
UTU-37116	UTU-73435	UTU-78853	
UTU-37355	UTU-73444	UTU-78854	
UTU-37573	UTU-73450	UTU-075939	
UTU-38261	UTU-73900	UTU-0149767	
UTU-39223	UTU-74409	UTU-2078	
UTU-40729	UTU-74410	UTU-44426	
UTU-40736	UTU-74413	UTU-49530	
UTU-42469	UTU-74414	UTU-51026	

**OPERATOR CHANGE WORKSHEET****ROUTING**

1. GLH		4-KAS
2. CDW	✓	5-LP
3. JLT		6-FILE

Enter date after each listed item is completed

Change of Operator (Well Sold)

Designation of Agent

Operator Name Change (Only)

**X** MergerThe operator of the well(s) listed below has changed, effective: **3-09-2001**

<b>FROM: (Old Operator):</b>
COASTAL OIL & GAS CORPORATION
Address: 9 GREENWAY PLAZA STE 2721
HOUSTON, TX 77046-0995
Phone: 1-(713)-418-4635
Account N0230

<b>TO: (New Operator):</b>
EL PASO PRODUCTION OIL & GAS COMPANY
Address: 9 GREENWAY PLAZA STE 2721 RM 2975B
HOUSTON, TX 77046-0995
Phone: 1-(832)-676-4721
Account N1845

**CA No.****Unit: NATURAL BUTTES****WELL(S)**

NAME	API NO	ENTITY NO	SEC TWN RNG	LEASE TYPE	WELL TYPE	WELL STATUS
NBU 18	43-047-30221	2900	10-10S-22E	FEDERAL	GW	P
NBU 117	43-047-31914	2900	10-10S-22E	FEDERAL	GW	P
NBU 142	43-047-32013	2900	10-10S-22E	FEDERAL	GW	P
NBU 180	43-047-32113	2900	10-10S-22E	FEDERAL	GW	P
NBU 188	43-047-32234	2900	10-10S-22E	FEDERAL	GW	S
NBU 210	43-047-32340	2900	10-10S-22E	FEDERAL	GW	P
NBU 206	43-047-32341	2900	10-10S-22E	FEDERAL	GW	P
NBU 231	43-047-32561	2900	10-10S-22E	FEDERAL	GW	P
NBU 247	43-047-32977	2900	10-10S-22E	FEDERAL	GW	P
NBU 249	43-047-32978	2900	10-10S-22E	FEDERAL	GW	P
NBU 293	43-047-33182	2900	10-10S-22E	FEDERAL	GW	P
NBU 345	43-047-33704	99999	10-10S-22E	FEDERAL	GW	NEW
NBU 31	43-047-30307	2900	11-10S-22E	STATE	GW	P
NBU 153	43-047-31975	2900	11-10S-22E	FEDERAL	GW	S
NBU 367	43-047-33707	99999	11-10S-22E	STATE	GW	APD
NBU 347	43-047-33709	99999	11-10S-22E	STATE	GW	APD
NBU 350	43-047-33642	2900	14-10S-22E	STATE	GW	DRL
NBU 213	43-047-32401	2900	15-10S-22E	FEDERAL	GW	P
NBU 58-23B	43-047-30463	2900	23-10S-22E	FEDERAL	GW	P
NBU 58	43-047-30838	2900	27-10S-22E	FEDERAL	GW	S

**OPERATOR CHANGES DOCUMENTATION**

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 06/19/2001
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 06/19/2001
- The new company has been checked through the **Department of Commerce, Division of Corporations Database** on: 06/21/2001
- Is the new operator registered in the State of Utah: YES Business Number: 608186-0143



5. If **NO**, the operator was contacted on: N/A
6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the (merger, name change, or operator change for all wells listed on Federal or Indian leases on: 07/10/2001
7. **Federal and Indian Units:** The BLM or BIA has approved the successor of unit operator for wells listed on: 07/10/2001
8. **Federal and Indian Communization Agreements ("CA"):** The BLM or the BIA has approved the operator change for all wells listed involved in a CA on: N/A
9. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: N/A

---

**DATA ENTRY:**

1. Changes entered in the **Oil and Gas Database** on: 08/21/2001
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 08/21/2001
3. Bond information entered in RBDMS on: N/A
4. Fee wells attached to bond in RBDMS on: N/A

---

**STATE BOND VERIFICATION:**

1. State well(s) covered by Bond No.: N/A

---

**FEDERAL BOND VERIFICATION:**

1. Federal well(s) covered by Bond No.: WY 2793

---

**FEE WELLS - BOND VERIFICATION/LEASE INTEREST OWNER NOTIFICATION:**

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond No: N/A
2. The **FORMER** operator has requested a release of liability from their bond on: N/A  
The Division sent response by letter on: N/A
3. (R649-2-10) The **FORMER** operator of the Fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: \_\_\_\_\_

---

**FILMING:**

1. All attachments to this form have been **MICROFILMED** on: \_\_\_\_\_

---

**FILING:**

1. **ORIGINALS/COPIES** of all attachments pertaining to each individual well have been filed in each well file on: \_\_\_\_\_

---

**COMMENTS:** Master list of all wells involved in operator change from Coastal Oil & Gas Corporation to El Paso Production Oil and Gas Company shall be retained in the "Operator Change File".

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**STATE OF UTAH**  
**DEPARTMENT OF NATURAL RESOURCES**  
**DIVISION OF OIL, GAS AND MINING**

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT -- for such proposals		6. Lease Designation and Serial Number U-01197-A-ST
1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other (specify)		7. Indian Allottee or Tribe Name
		8. Unit or Communitization Agreement NATURAL BUTTES
2. Name of Operator El Paso Production Oil & Gas Company		9. Well Name and Number NBU #367
3. Address of Operator P.O. Box 1148 Vernal, UT 84078	4. Telephone Number (435) 781-7023	10. API Well Number 43-047-33707
5. Location of Well Footage : 2500' FSL & 2220' FWL     County : Uintah QQ, Sec, T., R., M : NESW Sec. 11, T10S, R22E     State : UT		11. Field and Pool, or Wildcat Natural Buttes

12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA																											
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13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Operator requests that a one year APD extension be granted for the subject well.

This location is not within 460 feet from the boundary of the Natural Buttes Unit, nor is it within 460 feet of any non-committed tract lying within the boundaries of the Unit.

COPY SENT TO OPERATOR  
 Date: 12/3/01  
 Initials: CHD

Approved by the  
**Utah Division of  
 Oil, Gas and Mining**  
 Date: 12-03-01  
[Signature]

14. I hereby certify that the foregoing is true and correct.

Name & Signature Cheryl Cameron Title Regulatory Analyst Date 11/16/01

(State Use Only)

**RECEIVED**

NOV 27 2001

**DIVISION OF  
 OIL, GAS AND MINING**

**STATE OF UTAH**  
**DEPARTMENT OF NATURAL RESOURCES**  
**DIVISION OF OIL, GAS AND MINING**

### SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.  
 Use APPLICATION FOR PERMIT -- for such proposals

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other (specify)		6. Lease Designation and Serial Number U-01197-A-ST
2. Name of Operator El Paso Production Oil & Gas Company		7. Indian Allottee or Tribe Name
3. Address of Operator P.O. Box 1148 Vernal, UT 84078	4. Telephone Number (435) 781-7023	8. Unit or Communitization Agreement NATURAL BUTTES
5. Location of Well Footage : 2500' FSL & 2220' FWL      County : Uintah QQ, Sec. T., R., M : NESW Sec. 11, T10S, R22E      State : UT		9. Well Name and Number NBU #367
10. API Well Number 43-047-33707		11. Field and Pool, or Wildcat Natural Buttes

#### 12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

##### NOTICE OF INTENT (Submit in Duplicate)

<input type="checkbox"/> Abandonment	<input type="checkbox"/> New Construction
<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing
<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Shoot or Acidize
<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Vent or Flare
<input type="checkbox"/> Multiple Completion	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Other <u>APD Extension</u>	

Approximate Date Work Will Start 2002

##### SUBSEQUENT REPORT (Submit Original Form Only)

<input type="checkbox"/> Abandonment *	<input type="checkbox"/> New Construction
<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing
<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Shoot or Acidize
<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Vent or Flare
<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Other _____	

Date of Work Completion \_\_\_\_\_

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

\* Must be accompanied by a cement verification report.

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Operator requests that a one year APD extension be granted for the subject well.

This location is not within 460 feet from the boundary of the Natural Buttes Unit, nor is it within 460 feet of any non-committed tract lying within the boundaries of the Unit.

**ACCEPTED BY BLM FOR  
UNIT PURPOSES ONLY**

**RECEIVED  
JAN 07 2002**

14. I hereby certify that the foregoing is true and correct.

Name & Signature Cheryl Cameron Title Regulatory Analyst Date 11/16/01

(State Use Only)

2001

**STATE OF UTAH**  
**DEPARTMENT OF NATURAL RESOURCES**  
**DIVISION OF OIL, GAS AND MINING**

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13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Operator requests that authorization be granted to amend the current approved TD of 9300' to a TD of 7300'. Refer to the attached well bore schematic for the TD, cement, and casing amendments for the subject well.

**Approved by the**  
**Utah Division of**  
**Oil, Gas and Mining**

COPY SENT TO OPERATOR  
 Date: 4-15-02  
 Initials: CHD

Date: 04-02-02  
 By: [Signature]

**RECEIVED**  
 APR 02 2002  
 DIVISION OF  
 OIL, GAS AND MINING

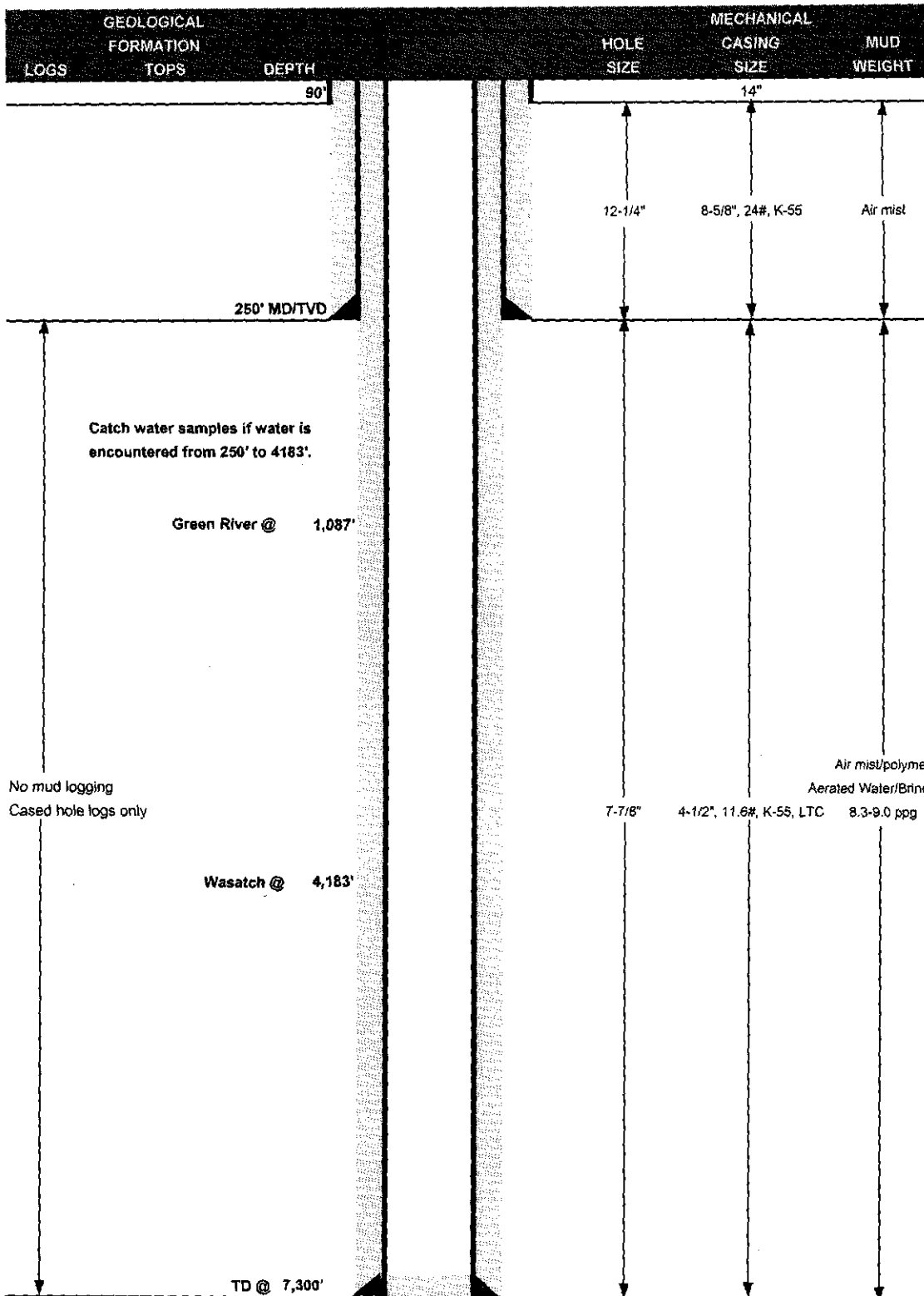
14. I hereby certify that the foregoing is true and correct.

Name & Signature Cheryl Cameron Title Operations Date 04/05/02

(State Use Only)

# **DRILLING PROGRAM FOR SUNDRY**

COMPANY NAME El Paso Production Company DATE April 5, 2002  
WELL NAME NBU 367 TD 7,300' MD/TVD  
FIELD Natural Buttes COUNTY Uintah STATE Utah ELEVATION 5,180' KB  
SURFACE LOCATION 2500' FSL, 2220' FWL, NW/SW, SEC. 11, T10S, R22E BHL Straight Hole  
OBJECTIVE ZONE(S) Wasatch  
ADDITIONAL INFO Regulatory Agencies: UDOGM, BLM, Tri-County Health Dept.



**el paso** Production  
**DRILLING PROGRAM**

**CASING PROGRAM**

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				2950	1370	263000
SURFACE	8-5/8"	0-250'	24.00	K-55	STC	21.03	11.71	4.70
						5350	4960	180000
PRODUCTION	4-1/2"	0-TD	11.60	K-55	LTC	2.08	1.45	1.34

- 1) Maximum Anticipated Surface Pressure (MASP) (Conductor and Surface Casings) = (Frac Gradient at Shoe - Gas Gradient (0.115 psi/ft))(TVD)
- 2) MASP (Int Casing) = Pore Pressure at Next Casing Point - (Gas Gradient x TVD of Next Casing Point x 0.67) - (Mud Weight x TVD x 0.052 x 0.33)
- 3) MASP (Prod Casing) = Pore Pressure - (Gas Gradient x TVD of Production Interval)
- (Burst Assumptions: FG @ 8-5/8" shoe = 13.0 ppg, Max Pore Pressure = 9.0 ppg EMW)
- (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing, 50000 lbs overpull)

**CEMENT PROGRAM**

	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	250	Premium Plus + 2% CaCl <sub>2</sub> + 0.125 pps polyfakel	110	35%	15.60	1.18
PRODUCTION	LEAD 3,680'	Hilift + 12% gel + 3% salt + 1% D79 + 0.5% D112 + 0.2% D46	340	60%	11.00	3.91
	TAIL 3,620'	50/50 Poz/G + 10% salt + 2% gel + 0.2% D46	1020	60%	14.30	1.31

**FLOAT EQUIPMENT & CENTRALIZERS**

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint to top of tail cement with bow spring centralizers.

**ADDITIONAL INFORMATION**

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 3M with one annular and 2 rams. Test to 3,000 psi (annular to 1,500 psi) prior to drilling out. Record on chart recorder & tour sheet. Function test rams on each trip. Maintain safety valve & inside BOP on rig floor at all times. Kelly to be equipped with upper & lower kelly valves.

Run Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.

DRILLING ENGINEER:

Dan Lindsey

DATE:

DRILLING SUPERINTENDANT:

Larry Strasheim

DATE:

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: EL PASO PRODUCTION OIL & GAS COMPANY

Well Name: NBU 367

Api No. 43-047-33707 LEASE TYPE: STATE

Section 11 Township 10S Range 22E County UINTAH

Drilling Contractor SKI DRILLING RIG # AIR

SPUDDED:

Date 04/10/2002

Time 4:00 PM

How ROTARY

Drilling will commence \_\_\_\_\_

Reported by JIM MURRAY

Telephone # 1-435-828-1730

Date 04/11/2002 Signed: CHD

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
ENTITY ACTION FORM - FORM 6

OPERATOR El Paso Production O&G Co.  
ADDRESS P.O. Box 1148  
Vernal, UT 84078

OPERATOR ACCT. NO. N 1845

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
<u>A</u>	<u>99999</u>	<u>13454</u>	<u>43-047-33980</u>	<u>TABBEE 34-158</u>	<u>SENE</u>	<u>34</u>	<u>8S</u>	<u>20E</u>	<u>UINTAH</u>	<u>4/9/2002</u>	<u>4-11-02</u> <del>4/9/2002</del>

WELL 1 COMMENTS:

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
<u>B</u>	<u>99999</u>	<u>2900</u>	<u>43-047-33707</u>	<u>NBU 367</u>	<u>NESW</u>	<u>11</u>	<u>10S</u>	<u>22E</u>	<u>UINTAH</u>	<u>4/10/2002</u>	<u>4-11-02</u> <del>4/10/2002</del>

WELL 2 COMMENTS: Added to Unit 4-11-02

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		

WELL 3 COMMENTS:

ACT CODE	Post-It* Fax Note 7671	Date	# of pages
	To <u>Jim Thompson</u>	From <u>Cheryl Cameron</u>	
	Co./Dept.	Co.	
WELL	Phone #	Phone #	
	Fax #	Fax #	

I NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
	QQ	SC	TP	RG	COUNTY		

ACT CODE	Post-It* Fax Note 7671	Date	# of pages
	To <u>Carol Daniels</u>	From <u>Cheryl Cameron</u>	
WELL	Co./Dept.	Co.	
	Phone #	Phone #	
ACT CODE	Fax #	Fax #	

I NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
	QQ	SC	TP	RG	COUNTY		

Cheryl Cameron  
Signature

OPERATIONS 04/11/02  
Title \_\_\_\_\_ Date \_\_\_\_\_

Phone No. (435) 781-7023

- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)

P. 01  
FAX NO. 4357817094  
APR-11-2002 THU 01:52 PM EL PASO PRODUCTION



**STATE OF UTAH**  
**DEPARTMENT OF NATURAL RESOURCES**  
**DIVISION OF OIL, GAS AND MINING**

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT -- for such proposals		6. Lease Designation and Serial Number U-01197-A-ST
		7. Indian Allottee or Tribe Name
		8. Unit or Communitization Agreement Natural Buttes Unit
1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other (specify)		9. Well Name and Number NBU 367
2. Name of Operator El Paso Production Oil & Gas Company		10. API Well Number 43-047-33707
3. Address of Operator P.O. Box 1148 Vernal, UT 84078	4. Telephone Number (435) 781-7023	11. Field and Pool, or Wildcat Natural Buttes
5. Location of Well Footage : 2500' FSL & 2220' FWL      County : Uintah QQ, Sec. T., R., M : NESW Sec. 11, T10S, R22E      State : UT		
12. <b>CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		

**NOTICE OF INTENT**  
 (Submit in Duplicate)

<input type="checkbox"/> Abandonment	<input type="checkbox"/> New Construction
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<input type="checkbox"/> Multiple Completion	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Other _____	

Approximate Date Work Will Start \_\_\_\_\_

**SUBSEQUENT REPORT**  
 (Submit Original Form Only)

<input type="checkbox"/> Abandonment *	<input type="checkbox"/> New Construction
<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing
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<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Vent or Flare
<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Other <u>Well Spud</u>	

Date of Work Completion 4/10/02

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

\* Must be accompanied by a cement verification report.

13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

MIRU Ski Air Rig. Spud 12 1/4" surface hole at 4:00 pm 4/10/02. Dril to 100'. SDFN.

14. I hereby certify that the foregoing is true and correct.

Name & Signature Cheryl Cameron Title Operations Date 04/15/02

(State Use Only)

**RECEIVED**

APR 23 2002

**DIVISION OF  
OIL, GAS AND MINING**

**STATE OF UTAH**  
**DEPARTMENT OF NATURAL RESOURCES**  
**DIVISION OF OIL, GAS AND MINING**

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4. Telephone Number (435) 781-7024		9. Well Name and Number NBU #367
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Approximate Date Work Will Start \_\_\_\_\_

**SUBSEQUENT REPORT**  
 (Submit Original Form Only)

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<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Other Set Surface Csg	

Date of Work Completion 4/12/02

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

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13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Set Surface Csg f/100' to 265'. Ran 8 5/8" 24# J-55 ST&C Csg.  
 Cmt w/142 sx Class G @ 15.8 ppg Yield 1.17 Water 5 Gal/Sk 2% CaCl2 .25#/SK Cello Flake  
 Cmt to Surface. Hole Stayed Full.

WORT

**RECEIVED**

**APR 23 2002**

**DIVISION OF  
OIL, GAS AND MINING**

14. I hereby certify that the foregoing is true and correct.

Name & Signature Sheila Upchego Title Regulatory Analyst Date 04/16/02  
 (State Use Only)

**STATE OF UTAH**  
**DEPARTMENT OF NATURAL RESOURCES**  
**DIVISION OF OIL, GAS AND MINING**

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT -- for such proposals		6. Lease Designation and Serial Number U-01197-A-ST
		7. Indian Allottee or Tribe Name
		8. Unit or Communitization Agreement Natural Buttes
1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other (specify)		9. Well Name and Number NBU 367
2. Name of Operator		10. API Well Number 43-047-33707
3. Address of Operator	4. Telephone Number	11. Field and Pool, or Wildcat Natural Buttes
5. Location of Well Footage : 2500' FSL & 2220' FWL      County : Uintah QQ, Sec. T., R., M : NESW Sec. 11, T10S, R22E      State : UT		
<b>12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		

**NOTICE OF INTENT**  
 (Submit in Duplicate)

<input type="checkbox"/> Abandonment	<input type="checkbox"/> New Construction
<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing
<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Shoot or Acidize
<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Vent or Flare
<input type="checkbox"/> Multiple Completion	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Other _____	

Approximate Date Work Will Start \_\_\_\_\_

**SUBSEQUENT REPORT**  
 (Submit Original Form Only)

<input type="checkbox"/> Abandonment *	<input type="checkbox"/> New Construction
<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing
<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Shoot or Acidize
<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Vent or Flare
<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Other <u>Drig Summary</u>	

Date of Work Completion 4/29/02

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

\* Must be accompanied by a cement verification report.

13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Finished drlg f/ 265'-6814' w/ El Paso Rig #2. RIH w/ 6814' of 4 1/2" 11.6# K-55 LT&C 8rd csg. Lead cmt w/ 335 sx Hilift mixed @ 11.0 ppg w/ 3.91 yield & Tail w/ 867 sx 50/50 Poz mixed @ 14.3 ppg w/ 1.31 yield.

Released Rig @ 1600 hrs 4/29/02.

**RECEIVED**

MAY 01 2002

DIVISION OF  
OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct.

Name & Signature Cheryl Cameron Title Operations Date 04/30/02  
 (State Use Only)

# STATE OF UTAH

## DIVISION OF OIL, GAS AND MINING

### WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*

## 1a. TYPE OF WELL

OIL WELL ☐ GAS WELL ☒ DRY ☐ Other \_\_\_\_\_

## 1b. TYPE OF COMPLETION

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other \_\_\_\_\_

## 2. NAME OF OPERATOR

El Paso Production Oil &amp; Gas Company

## 3. ADDRESS AND TELEPHONE NO.

P.O. Box 1148 Vernal, UT 84078 (435) 781-7023

## 4. LOCATION OF WELL (Report locations clearly and in accordance with any State requirements)

At Surface  
NESW 2500' FSL & 2220' FWL  
At top prod. Interval reported below

## At total depth

## 14. API NO.

43-047-33707

## DATE ISSUED

11/16/00

## 5. LEASE DESIGNATION AND SERIAL NO.

U-01197-A-ST

## 6. IF INDIAN, ALLOTTEE OR TRIBE NAME

## 7. UNIT AGREEMENT NAME

Natural Buttes Unit

## 8. FARM OR LEASE NAME, WELL NO.

NBU

## 9. WELL NO.

367

## 10. FIELD AND POOL OR WILDCAT

Natural Buttes

## 11. SEC., T., R., M., OR BLOCK AND SURVEY

## OR AREA

Sec. 11, T10S, R22E

## 12. COUNTY

Uintah

## 13. STATE

UTAH

## 15. DATE SPURRED

4/10/02

## 16. DATE T.D. REACHED

4/28/02

## 17. DATE COMPL. (Ready to prod. or Plug &amp; Seal)

6/16/02

## 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*

5123.8' Ungraded GR

## 19. ELEV. CASINGHEAD

## 20. TOTAL DEPTH, MD &amp; TVD

6814' MD

## 21. PLUG, BACK T.D., MD &amp; TVD

6764' MD

## 22. IF MULTIPLE COMPL., HOW MANY

-----&gt;

## 23. INTERVALS ROTARY TOOLS

DRILLED BY

X

## CABLE TOOLS

## 24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)

WASATCH 6228' - 6700'

## 25. WAS DIRECTIONAL SURVEY MADE

No

## 26. TYPE ELECTRIC AND OTHER LOGS RUN

DSE/CN/CR-511-02, CBL/L20/DSE/CN

27. WAS WELL CORED YES ☐ NO ☒ (Submit analysis)DRILL STEM TEST YES ☐ NO ☒ (See reverse side)

## 23. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8	24# J-55	255	12 1/4	142 sx Class G	
4 1/2	11.6# K-55	6814	7 7/8	335 sx Hilift	
				867 sx 50/50 Poz	

## 29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 3/8	6651	

## 31. PERFORATION RECORD (Interval, size and number)

INTERVAL SIZE NUMBER

See Attachment

## 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

## 33.\*

## PRODUCTION

DATE FIRST PRODUCTION 6/21/02		PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump) Flowing					WELL STATUS (Producing or shut-in) Producing	
DATE OF TEST 6/24/02	HOURS TESTED 24	CHOKE SIZE 64/64	PROD'N. FOR TEST PERIOD →	OIL--BBL. 0	GAS--MCF. 1758	WATER--BBL. 214		GAS-OIL RATIO
FLOW. TUBING PRESS. 369#	CASING PRESSURE 818#	CALCULATED 24-HOUR RATE →	OIL--BBL. 0	GAS--MCF. 1758	WATER--BBL. 214		OIL GRAVITY-API (CORR.)	

## 34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Sold &amp; Used For Fuel

## TEST WITNESSED BY

## 35. LIST OF ATTACHMENTS

3rd Page Attachment Items 31 &amp; 32

## 36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Cheryl Cameron

TITLE Operations

JUL 29 2002

DATE 7/19/2002

DIVISION OF

See Spaces for Addition Data on Reverse Side

OIL, GAS AND MINING

# INSTRUCTIONS

This form should be completed in compliance with the Utah Oil and Gas Conservation General Rules. If not filed prior to this time, all logs, tests, and directional surveys as required by Utah Rules should be attached and submitted with this report.

ITEM 18: Indicate which elevation is used as reference for depth measurements given in other spaces on this form and on any attachments. ITEMS 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

ITEM 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

ITEM 33: Submit a separate completion report on this form for each interval to be separately produced (see instruction for items 22 and 24 above).

37. SUMMARY OF POROUS ZONES: Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.				38. GEOLOGIC MARKERS		
Formation	Top	Bottom	Description, contents, etc.	Name	Meas. Depth	True Vert. Depth
Green River	960	4047				
Wasatch	4047	6488				
Mesaverde	6488					

Form 8

Additional Page For Comments

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

U-01197-A-ST

Lease Serial No.

NBU 367

NESW SEC. 11, T10S, R22E

ITEM# 31 & 32

INTERVAL <u>WASATCH</u>	SIZE	NUMBER
6690-6700	3 SPF	30 HOLES
6570-6574	2 SPF	8 HOLES
6552-6556	2 SPF	8 HOLES
6500-6502	2 SPF	4 HOLES
6470-6474	2 SPF	8 HOLES
6352-6356	2 SPF	8 HOLES
6312-6316	2 SPF	8 HOLES
6297-6301	2 SPF	8 HOLES
6228-6234	4 SPF	24 HOLES

DEPTH INTERVAL	AMOUNT & KIND OF MATERIAL
6690-6700	Frac w/ 45,000# 20/40 sand
6570-6574	
6552-6556	
6500-6502	
6470-6474	Frac w/ 173,000# 20/40 sand
6352-6356	
6312-6316	
6297-6301	Frac w/ 85,500# 20/40 sand
6228-6234	Frac w/ 48,280# 20/40 sand

**STATE OF UTAH**  
**DEPARTMENT OF NATURAL RESOURCES**  
**DIVISION OF OIL, GAS AND MINING**

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT – for such proposals		6. Lease Designation and Serial Number <b>U-01197-A-ST</b>
		7. Indian Allottee or Tribe Name
		8. Unit or Communitization Agreement <b>Natural Buttes Unit</b>
1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other (specify)		9. Well Name and Number <b>NBU #367</b>
2. Name of Operator <b>El Paso Production Oil &amp; Gas Company</b>		10. API Well Number <b>43-047-33707</b>
3. Address of Operator <b>P.O. Box 1148 Vernal, Utah 84078</b>	4. Telephone Number <b>(435) 781-7024</b>	11. Field and Pool, or Wildcat <b>Natural Buttes</b>
5. Location of Well Footage : 2500'FSL & 2220'FWL     County : Uintah QQ, Sec. T., R., M. : NESW Section 11-T10S-R22E     State : Utah		
<b>12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		

<p style="text-align: center;"><b>NOTICE OF INTENT</b> (Submit in Duplicate)</p> <table style="width: 100%;"> <tr> <td><input type="checkbox"/> Abandonment</td> <td><input type="checkbox"/> New Construction</td> </tr> <tr> <td><input type="checkbox"/> Casing Repair</td> <td><input type="checkbox"/> Pull or Alter Casing</td> </tr> <tr> <td><input type="checkbox"/> Change of Plans</td> <td><input type="checkbox"/> Recompletion</td> </tr> <tr> <td><input type="checkbox"/> Conversion to Injection</td> <td><input type="checkbox"/> Shoot or Acidize</td> </tr> <tr> <td><input type="checkbox"/> Fracture Treat</td> <td><input type="checkbox"/> Vent or Flare</td> </tr> <tr> <td><input type="checkbox"/> Multiple Completion</td> <td><input type="checkbox"/> Water Shut-Off</td> </tr> <tr> <td><input type="checkbox"/> Other _____</td> <td></td> </tr> </table> <p>Approximate Date Work Will Start _____</p>	<input type="checkbox"/> Abandonment	<input type="checkbox"/> New Construction	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing	<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Recompletion	<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Shoot or Acidize	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Vent or Flare	<input type="checkbox"/> Multiple Completion	<input type="checkbox"/> Water Shut-Off	<input type="checkbox"/> Other _____		<p style="text-align: center;"><b>SUBSEQUENT REPORT</b> (Submit Original Form Only)</p> <table style="width: 100%;"> <tr> <td><input type="checkbox"/> Abandonment *</td> <td><input type="checkbox"/> New Construction</td> </tr> <tr> <td><input type="checkbox"/> Casing Repair</td> <td><input type="checkbox"/> Pull or Alter Casing</td> </tr> <tr> <td><input type="checkbox"/> Change of Plans</td> <td><input type="checkbox"/> Shoot or Acidize</td> </tr> <tr> <td><input type="checkbox"/> Conversion to Injection</td> <td><input type="checkbox"/> Vent or Flare</td> </tr> <tr> <td><input type="checkbox"/> Fracture Treat</td> <td><input type="checkbox"/> Water Shut-Off</td> </tr> <tr> <td><input checked="" type="checkbox"/> Other <u>Production Start-Up</u></td> <td></td> </tr> </table> <p>Date of Work Completion <u>6/21/02</u></p> <p style="font-size: small;">Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.        * Must be accompanied by a cement verification report.</p>	<input type="checkbox"/> Abandonment *	<input type="checkbox"/> New Construction	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing	<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Shoot or Acidize	<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Vent or Flare	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Water Shut-Off	<input checked="" type="checkbox"/> Other <u>Production Start-Up</u>	
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13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

The subject well was placed on production on 6/21/02.

The produced water from the subject well will be contained in a water tank and then be hauled to one of the pre-approved disposal sites: RNI in Sec. 5-T9S-R22E, NBU #159 Sec. 35-T9S-R21E, Ace Oilfield Sec. 2-T6S-R20E, MC&MC Sec. 12-T6S-R19E.

Please refer to the attached Chronological Well History.

RECEIVED

JUL 01 2002

DIVISION OF  
OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct.

Name & Signature Sheila Upchego  Title Regulatory Analyst Date 06/24/02

(State Use Only)

**EL PASO  
PRODUCTION REPORT**

**CHRONOLOGICAL HISTORY**

Page 1

**NBU 367**

LOC.

NATURAL BUTTES FIELD

UINTAH COUNTY, UT

WI: 100%

PBTD:            PERFS:

CSG:

SPUD DATE:

**AFE DESCR., AFE: 063537  
FORMATION:**

**DRILLING REPORT:**

NBU, Uintah, UT    Rig: El Paso 2    WI: 100%    AFE: 063537    ATD: 6,800'  
SD: 4/22/02    Wasatch @ 4,120'    8 5/8" @ 265'

4/22/02	TD: 265	MW: 8.4	MIRU. NU & test BOP's
4/23/02	TD: 2,120	MW: 8.4	1,851'/20.5 hrs    PU BHA. Drill cement & float equipment. Drilling to present depth.
4/24/02	TD: 3,460	MW: 8.4	1,340'/23.5 hrs    Drilling to present depth.
4/25/02	TD: 4,590'	MW: 8.4	1,130'/23.5 hrs.    Drilling to present depth.
4/26/02	TD: 5,385	MW: Air/Water 795'/23.5 hrs.	Drilling to present depth.
4/29/02	TD: 6,814	MW: 8.4	359'/12.5 hrs    Drill to TD. C & C mud. LDDP.
4/30/02	TD: 6,814	MW: 8.4	Run & cement 4 1/2" production casing. ND BOP's. Set casing hanger. NU cap. <u>Release rig @ 1600, 4/29/02</u>

---

**AFE DESC. DRILL AND COMPLETE AFE #: 063537**

WI: 100%

PBTD: 6,764'    PERFS: 6,228'-6,700'    CSG: 4 1/2", 11.6#, K-55 LT&C @ 6,814'

FORMATION: WASATCH

6/11/02

**PREP TO PERF**

MIRU. NUBOPE. PU & RIH 3 7/8" MILL TOOTH BIT & 2 3/8" TBG. TAG PBTD @ 6764'. REV CIRC WELLBORE CLEAN W/100 BBLs 2% KCL WTR. POOH. TST 4 1/2" CSG TO 5000#. HELD. UNABLE TO GET PRESS TST ON 4 1/2" X 8 5/8" ANNULUS.



6/12/02

**FRACING**

PERF WASATCH 6690'-6700', 3 SPF. FL @ SURF, END PRESS: 0#. BRK DN W/3800# @ ½ BPM. PUMP 20 BBLs 2% KCL W/2200# @ 2.5 BPM. ISIP: 1800#, FG: .70. PREP TO FRAC.

6/13/02

**PREP TO DO CBP'S**

STAGE 1: BRK DN WASATCH PERFS 6690'-6700' W/3800# @ ½ BPM, ISIP: 1800#, FG: 0.70. FRAC W/511 BBLs YF115ST LIQ GEL & 45,000# 20/40 SD. ISIP: 2440#, FG: 0.80, NET PRESS INCR: 640#, MTP: 4280#, ATP: 3045#, MTR: 25.9 BPM, ATR: 21.7 BPM. PU & RIH W/CBP & PERF GUN. SET CBP @ 6620'.

STAGE 2: PERF WASATCH 6570'-6574', 2 SPF, 8 HOLES; 6552'-6556', 2 SPF, 8 HOLES; 6500'-6502', 2 SPF, 4 HOLES; AND 6470'-6474', 2 SPF, 8 HOLES. BRK DN PERFS W/1941# @ 1.5 BPM, ISIP: 1570#, FG: 0.67. FRAC W/1610 BBLs YF115ST LIQ GEL & 173,000# 20/40 SD. ISIP: 2307#, FG: 0.79, NET PRESS INCR: 737#, MTP: 4468#, ATP: 3876#, MTR: 47.9 BPM. ATR: 43.2 BPM. PU & RIH W/CBP & PERF GUN. SET CBP @ 6400'.

STAGE 3: PERF WASATCH 6352'-6356', 2 SPF, 8 HOLES; 6312'-6316', 2 SPF, 8 HOLES; AND 6297'-6301', 2 SPF, 8 HOLES. BRK DN W/1886# @ 1.5 BPM, ISIP: 1099#, FG: 0.61. FRAC W/836 BBLs YF113ST LIQ GEL & 85,500# 20/40 SD. ISIP: 2509#, FG: 0.83, NET PRESS INCR: 1410#, MTP: 3877#, ATP: 3299#, MTR: 37.4 BPM, ATR: 34.2 BPM. PU & RIH W/CBP & PERF GUN. SET CBP @ 6250'.

STAGE 4: PERF WASATCH 6228'-6234', 4 SPF, 24 HOLES. BRK DN PERFS W/2856# @ 1.5 BPM. ISIP: 1813#, FG: 0.73. FRAC W/521 BBLs YF113ST LIQ GEL & 48,280# 20/40 SD. ISIP: 2957#, FG: 0.90, NET PRESS INCR: 1144#, MTP: 3616#, ATP: 3040#, MTR: 25.4 BPM, ATR: 23.6 BPM. RIH & SET CBP @ 6170'. SIH W/3 7/8" BIT. EOT @ 6150'.

6/14/02

**FLWG BACK LOAD**

DO CBP'S @ 6170', 6250', 6400', & 6620'. CO TO PBTD @ 6737' W/AIR FOAM. PU & LAND TBG @ 6651', SN @ 6618'. FLOW BACK WELL 15 HRS ON 64/64" CHK. CP: 600# TO 1000# TO 925#, FTP: 250# TO 190#, 70 BWPH TO 25 BWPH, TRACE OF SD, GAS EST: 1800 MCFPD. TLTR: 3700 BBLs, TLR: 1487 BBLs, LLTR: 2213 BBLs.

6/17/02

SI WO FACILITIES.

6/18/02

SI WO FACILITIES.

6/19/02

SI WO FACILITIES.

6/20/02

SI WO FACILITIES.

6/21/02

SI WO FACILITIES. TLTR: 3700 BBLs, TLR: 1487 BBLs, LLTR: 2213 BBLs.

6/24/02

**ON SALES**

6/22/02: PLACE ON SALES @ 12:33 PM, 6/21/02. SPOT PROD DATA: CHK: 10/64", FTP: 2210#, CP: 2333#, 10 BWPH, 2288 MCFPD.

6/23/02: FLWD 1143 MCF, 140 BW, FTP: 847#, CP: 1373#, 12/64" CHK, 16 HRS, LP: 244#.

6/24/02: FLWD 1687 MCF, 252 BW, FTP: 447#, CP: 895#, 64/64" CHK, 24 HRS, LP: 263#. TLTR: 3700 BBLs, TLR: 1879 BBLs, LLTR: 1821 BBLs.

JAN. 17. 2003 3:34PM

WESTPORT

NO. 173 P. 2

**WESTPORT OIL AND GAS COMPANY, L.P.**

410 Seventeenth Street #2300 Denver Colorado 80202-4436  
Telephone: 303 573 5404 Fax: 303 573 5609

February 1, 2002

Department of the Interior  
Bureau of Land Management  
2850 Youngfield Street  
Lakewood, CO 80215-7093  
Attention: Ms. Martha Maxwell

RE: BLM Bond CO-1203  
BLM Nationwide Bond 158626364  
Surety - Continental Casualty Company  
Belco Energy Corporation merger into Westport Oil and Gas Company, Inc.  
Conversion of Westport Oil and Gas Company, Inc., into Westport Oil and Gas Company, L.P.  
Assumption Rider - Westport Oil and Gas Company, L.P.

Dear Ms. Maxwell:

Pursuant to our recent conversations, please find the following list of enclosures for the BLM's consideration and approval:

Two (2) Assumption Riders, fully executed originals.  
Copies of Belco Energy Corporation merger into Westport Oil and Gas Company, Inc.  
Copies of Westport Oil and Gas Company, Inc., conversion into Westport Oil and Gas Company, L.P.  
List of all Federal/BIA/State Leases - Belco/Westport's leases - in all states.

Please inform us of any additional information needed to complete the change to Westport Oil and Gas Company, L.P., as operator of record.

I thank you for your assistance and cooperation in this matter. Please do not hesitate contacting the undersigned, should a question arise.

Sincerely,  
Westport Oil and Gas Company, L.P.

Debby J. Black  
Engineer Technician

Encl:



United States Department of the Interior **RECEIVED**

BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155

FEB 22 2002

DIVISION OF  
OIL, GAS AND MINING

In Reply Refer To:

3106

UTU-25566 et al

(UT-924)

FEB 21 2002

NOTICE

Westport Oil and Gas Company L.P. : Oil and Gas  
410 Seventeenth Street, #2300 :  
Denver Colorado 80215-7093 :

Name Change Recognized

Acceptable evidence has been received in this office concerning the name change of Westport Oil and Gas Company, Inc. into Westport Oil and Gas Company, L.P. with Westport Oil and Gas Company, L.P. being the surviving entity.

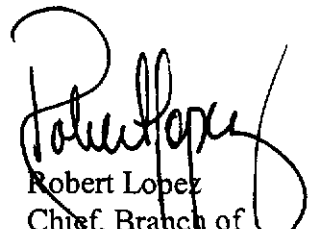
For our purposes, the name change is recognized effective December 31, 2001.

The oil and gas lease files identified have been noted as to the name change. The exhibit was compiled from a list of leases obtained from our computer program. We have not abstracted the lease files to determine if the entities affected by this name change hold an interest in the leases identified nor have we attempted to identify leases where the entities are the operator on the ground maintaining no vested recorded title or operating rights interests. We will be notifying the Minerals Management Service and all applicable Bureau of Land Management offices of the change by a copy of this notice. If additional documentation for changes of operator are required by our Field Offices, you will be contacted by them.

If you identify additional leases in which the entities maintain an interest, please contact this office and we will appropriately document those files with a copy of this Notice.

Due to the name change, the name of the principal/obligor on the bond is required to be changed from Westport Oil and Gas Company, Inc. to Westport Oil and Gas Company, L.P.. You may accomplish this either by consent of surety rider on the original bond or a rider to the original bond. The bonds are held in Colorado.

UTU-03405  
UTU-20895  
UTU-25566  
UTU-43156  
UTU-49518  
UTU-49519  
UTU-49522  
UTU-49523



Robert Lopez  
Chief, Branch of  
Minerals Adjudication

cc: Moab Field Office  
Vernal Field Office  
MMS, Reference Data Branch, MS3130, PO Box 5860, Denver CO 80217  
State of Utah, DOGM, Attn: Jim Thompson (Ste. 1210), Box 145801, SLC UT 84114  
Teresa Thompson (UT-922)  
Joe Incardine (UT-921)

# memorandum

Branch of Real Estate Services  
Uintah & Ouray Agency

Date: 5 December, 2002

Reply to  
Attn of: Supervisory Petroleum Engineer

Subject: Modification of Utah Division of Oil, Gas and Mining Regulations

To: Director, Utah Division of Oil, Gas and Mining Division: John Baza

We have been advised of changes occurring with the operation of your database for Change of Operator. You will be modifying your records to reflect Change of Operator once you have received all necessary documentation from the companies involved, and perhaps in advance of our Notice of Concurrence/Approval of Change of Operator where Indian leases are involved.

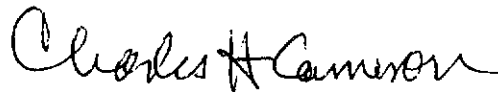
We have no objection.

With further comment to Rulemaking, I wish to comment concerning the provision of Exhibits for upcoming Hearings. I would like to see the Uintah & Ouray Agency, BIA, and the Ute Indian Tribe, Energy & Mineral Resources Department added to the list of those parties that receive advance Exhibits so as to allow us to have research time prior to Hearing dates. We will be able to provide a more informed recommendation to the Oil, Gas and Mining Board. It would be best if we would receive only those Exhibits that concern Indian lands, specifically on or adjacent to Indian lands. This may be a difficult situation to attain, as it is not always clear where 'on or adjacent' occurs.

I am aware that you have gone to extra effort to correct this matter already, and I fully appreciate it. My request is intended only to allow the addition of Uintah & Ouray Agency and Ute Indian Tribe to the official listing.

We appreciate your concern, and hope that these comments are timely enough for consideration in the revision process.

CC: Minerals & Mining Section of RES  
Ute Energy & Mineral Resources Department: Executive Director  
chrono





## United States Department of the Interior

BUREAU OF INDIAN AFFAIRS

Washington, D.C. 20240

FEB 10 2003

IN REPLY REFER TO:  
Real Estate Services

Carroll A. Wilson  
Principal Landman  
Westport Oil and Gas Company, L.P.  
1368 South 1200 East  
Vernal, Utah 84078

Dear Mr. Wilson:

This is in response to your request for approval of RLI Insurance Company's Nationwide Oil and Gas Lease Bond No. RLB0005239 executed effective December 17, 2002, (\$150,000 coverage) with Westport Oil and Gas Company, L. P., as principal.

This bond is hereby approved as of the date of this correspondence and will be retained in the Bureau of Indian Affairs' Division of Real Estate Services, 1849 C Street, NW, MS-4512-MIB, Washington, D.C. 20240. All Bureau oil and gas regional offices and the surety are being informed of this action.

In cases where you have existing individual and/or collective bonds on file with one or more of our regional offices, you may now request those offices, directly, to terminate in lieu of coverage under this Nationwide Bond.

Enclosed is a copy of the approved bond for your files. If we may be of further assistance in this matter, please advise.

Sincerely,

Director, Office of Trust Responsibilities

**ACTING**

Enclosure



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155

IN REPLY REFER TO  
UT-922

February 27, 2003

Westport Oil and Gas Company, L.P.  
Attn: Gary D. Williamson  
1670 Broadway, Suite 2800  
Denver, Colorado 80202

Re: Natural Buttes Unit  
Uintah County, Utah

Gentlemen:

On February 27, 2003, we received an indenture dated December 17, 2002, whereby El Paso Production Oil & Gas Company resigned as Unit Operator and Westport Oil and Gas Company, L.P., was designated as Successor Unit Operator for the Natural Buttes Unit, Uintah County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective February 27, 2003. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the Natural Buttes Unit Agreement.

Your nationwide (Colorado) oil and gas bond No. 1203 will be used to cover all operations within the Natural Buttes Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ Robert A. Henricks

Robert A. Henricks  
Chief, Branch of Fluid Minerals

Enclosure

bcc: Field Manager - Vernal (w/enclosure)  
SITLA  
Division of Oil, Gas & Mining  
Minerals Adjudication Group  
File - Natural Buttes Unit (w/enclosure)  
Agr. Sec. Chron  
Fluid Chron

UT922:TAThompson:tt:02/27/2003

RECEIVED

FEB 28 2003

DIV. OF OIL, GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER:
2. NAME OF OPERATOR: El Paso Production Oil & Gas Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 9 Greenway Plaza CITY: Houston STATE: TX ZIP: 77064-0995		7. UNIT or CA AGREEMENT NAME:
PHONE NUMBER: (832) 676-5933		8. WELL NAME and NUMBER: Exhibit "A"
4. LOCATION OF WELL FOOTAGES AT SURFACE: COUNTY:		9. API NUMBER:
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: STATE: UTAH		10. FIELD AND POOL, OR WILDCAT:

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input checked="" type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/RESUME) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input type="checkbox"/> OTHER: _____
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Operator change to Westport Oil and Gas Company, L.P., 1670 Broadway, Suite 2800, Denver, CO. 80202-4800, effective December 17, 2002.

BOND # \_\_\_\_\_

State Surety Bond No. RLB0005236  
Fee Bond No. RLB0005238


EL PASO PRODUCTION OIL & GAS COMPANY

By:   
Jon R. Nelsen, Attorney-in-Fact

RECEIVED

FEB 28 2003

DIV. OF OIL, GAS & MINING

WESTPORT OIL AND GAS COMPANY, L.P.			
NAME (PLEASE PRINT)	David R. Dix	TITLE	Agent and Attorney-in-Fact
SIGNATURE		DATE	12/17/02

(This space for State use only)



Form 3160-3  
(August 1999)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## SUNDRY NOTICES AND REPORTS ON WELLS

*Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.***SUBMIT IN TRIPLICATE - Other instructions on reverse side**1. Type of Well  
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

WESTPORT OIL &amp; GAS COMPANY, L.P.

3a. Address

P.O. BOX 1148 VERNAL, UT 84078

3b. Phone No. (Include area code)

(435) 781-7023

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SEE ATTACHED EXHIBIT "A"

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

5. Lease Serial No.

SEE ATTACHED EXHIBIT "A"

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

SEE ATTACHED EXHIBIT "A"

9. API Well No.

SEE ATTACHED EXHIBIT "A"

10. Field and Pool, or Exploratory Area

11. County or Parish, State

UINTAH COUNTY, UT

## 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

## TYPE OF SUBMISSION

- ☐
- Notice of Intent
- 
- ☐
- Subsequent Report
- 
- ☐
- Final Abandonment Notice

## TYPE OF ACTION

- ☐
- Acidize
- ☐
- Deepen
- ☐
- Production (Start/Resume)
- ☐
- Water Shut-Off
- 
- ☐
- Alter Casing
- ☐
- Fracture Treat
- ☐
- Reclamation
- ☐
- Well Integrity
- 
- ☐
- Casing Repair
- ☐
- New Construction
- ☐
- Recomplete
- ☒
- Other
- 
- ☐
- Change Plans
- ☐
- Plug and Abandon
- ☐
- Temporarily Abandon
- 
- ☐
- Convert to Injection
- ☐
- Plug Back
- ☐
- Water Disposal

SUCCESSOR OF  
OPERATOR

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompletes horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed when testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator determined that the site is ready for final inspection.

WESTPORT OIL & GAS COMPANY, L.P., IS CONSIDERED TO BE THE OPERATOR ON THE ATTACHED DESCRIBED LANDS AND IS RESPONSIBLE UNDER THE TERMS AND CONDITIONS OF THE LEASE FOR THE OPERATIONS CONDUCTED ON THE LEASED LANDS OR PORTIONS THEREOF, BOND COVERAGE FOR THIS WELL IS PROVIDED BY FEDERAL NATIONWIDE BOND NO. 158626364, EFFECTIVE FEBRUARY 1, 2002, AND BIA NATIONWIDE BOND NO. RLB0005239, EFFECTIVE FEBRUARY 10, 2003.

RECEIVED

MAR 04 2003

DIV. OF OIL, GAS &amp; MINING

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

CHERYL CAMERON

Title

OPERATIONS

Date

March 4, 2003

Approved by

THIS SPACE FOR FEDERAL OR STATE USE

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

## OPERATOR CHANGE WORKSHEET

## ROUTING

1. GLH
2. CDW ✓
3. FILE

X Change of Operator (Well Sold)

Designation of Agent/Operator

Operator Name Change

Merger

The operator of the well(s) listed below has changed, effective: 12-17-02

<b>FROM: (Old Operator):</b>	<b>TO: (New Operator):</b>
EL PASO PRODUCTION OIL & GAS COMPANY	WESTPORT OIL & GAS COMPANY LP
Address: 9 GREENWAY PLAZA	Address: P O BOX 1148
HOUSTON, TX 77064-0995	VERNAL, UT 84078
Phone: 1-(832)-676-5933	Phone: 1-(435)-781-7023
Account No. N1845	Account No. N2115

CA No.

Unit:

NATURAL BUTTES

## WELL(S)

NAME	SEC TWN RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
NBU 180	10-10S-22E	43-047-32113	2900	FEDERAL	GW	P
NBU 247	10-10S-22E	43-047-32977	2900	FEDERAL	GW	P
NBU 249	10-10S-22E	43-047-32978	2900	FEDERAL	GW	S
NBU 293	10-10S-22E	43-047-33182	2900	FEDERAL	GW	P
NBU 345	10-10S-22E	43-047-33704	2900	FEDERAL	GW	P
NBU 248	10-10S-22E	43-047-34079	2900	FEDERAL	GW	P
NBU 367	11-10S-22E	43-047-33707	2900	STATE	GW	P
NBU 347	11-10S-22E	43-047-33709	2900	STATE	GW	P
NBU 348	11-10S-22E	43-047-34001	2900	STATE	GW	P
NBU 349	11-10S-22E	43-047-34002	2900	STATE	GW	P
NBU 222	11-10S-22E	43-047-32509	2900	STATE	GW	P
NBU 272	11-10S-22E	43-047-32889	2900	STATE	GW	P
NBU 31	11-10S-22E	43-047-30307	2900	STATE	GW	P
NBU 394	11-10S-22E	43-047-34804	99999	STATE	GW	APD
NBU 153	11-10S-22E	43-047-31975	2900	FEDERAL	GW	S
NBU 31-12B	12-10S-22E	43-047-30385	2900	STATE	GW	P
NBU 24N2	12-10S-22E	43-047-30535	2900	STATE	GW	S
NBU 32-13B	13-10S-22E	43-047-30395	2900	STATE	GW	PA
NBU 38N2	13-10S-22E	43-047-30536	2900	STATE	GW	P
NBU CIGE 43-14-10-22	14-10S-22E	43-047-30491	2900	STATE	GW	P

## OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 02/28/2003
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 03/04/2003
- The new company has been checked through the **Department of Commerce, Division of Corporations Database** on: 03/06/2003
- Is the new operator registered in the State of Utah: YES Business Number: 1355743-0181
- If **NO**, the operator was contacted on: \_\_\_\_\_

6. (R649-9-2)Waste Management Plan has been received on: IN PLACE

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM-12/31/2003 BIA-12/5/02

8. **Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: 02/27/2003

9. **Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on: N/A

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: N/A

**DATA ENTRY:**

1. Changes entered in the Oil and Gas Database on: 03/24/2003
2. Changes have been entered on the Monthly Operator Change Spread Sheet on: 03/24/2003
3. Bond information entered in RBDMS on: N/A
4. Fee wells attached to bond in RBDMS on: N/A

**STATE WELL(S) BOND VERIFICATION:**

1. State well(s) covered by Bond Number: RLB 0005236

**FEDERAL WELL(S) BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: 158626364

**INDIAN WELL(S) BOND VERIFICATION:**

1. Indian well(s) covered by Bond Number: RLB 0005239

**FEE WELL(S) BOND VERIFICATION:**

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number RLB 0005238
2. The **FORMER** operator has requested a release of liability from their bond on: N/A  
The Division sent response by letter on: N/A

**LEASE INTEREST OWNER NOTIFICATION:**

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: N/A

**COMMENTS:**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

## SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.

## SUBMIT IN TRIPLICATE - Other instructions on reverse side

## 1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

## 2. Name of Operator

WESTPORT OIL &amp; GAS COMPANY, L.P.

## 3a. Address

P.O. BOX 1148 VERNAL, UT 84078

## 3b. Phone No. (include area code)

(435) 781-

## 4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Multiple Wells - see attached

## 5. Lease Serial No.

Multiple Wells - see attached

## 6. If Indian, Allottee or Tribe Name

## 7. If Unit or CA/Agreement, Name and/or No.

891008900A

## 8. Well Name and No.

Multiple Wells - see attached

## 9. API Well No.

Multiple Wells - see attached

## 10. Field and Pool, or Exploratory Area

Natural Buttes Unit

## 11. County or Parish, State

Uintah County, UT

## 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

Westport Oil & Gas requests a variance to Onshore Order No. 4, Part IIC.a. requiring each sales tank be equipped with a pressure-vacuum thief hatch and/or vent line valve. The variance is requested as an economic analysis shows the value of the shrunk condensate will not payout the incremental cost of purchasing and maintaining the valve resulting in a loss of value over the producing life of the well.

The volume lost to shrinkage by dropping the tank pressure from 6 ozs. to 0 psig is shown to be 0.3% of the tank volume. This was determined by lab analysis of a representative sample from the field. The sample shrunk from 98.82% of original volume to 98.52% when the pressure was dropped.

The average NBU well produces approximately 6 bbls condensate per month. The resulting shrinkage would amount to 0.56 bbls per month lost volume due to shrinkage. The value of the shrunk and lost condensate does not recoup or payout the cost of installing and maintaining the valves and other devices that hold the positive tank pressure. An economic run based on the loss and costs is attached.

Westport Oil & gas requests approval of this variance in order to increase the value of the well to the operator and the mineral royalty owners.

## 14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

J.T. Conley

Signature

COPY SENT TO OPERATOR

Date:

Initials:

Title

Date

Operations Manager

9-2-2003

SEP 10 2003

DIV OF OIL, GAS AND MINING

THIS SPACE FOR FEDERAL OR STATE USE

Approved by

Title

Date

Accepted by the  
Utah Division of  
Oil, Gas and MiningFederal Approval of This  
Action Is Necessary

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Date: 9/16/03

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

# Westport Oil & Gas, L.P.

## Project Economics Worksheet

### Instructions:

Fill in blue boxes with before and after project data. The evaluation results are shown below and graphed automatically at the bottom of the page. This sheet is protected to prevent accidental alteration of the formulas. See JTC for changes. OPX entered as annual costs and/or as unit OPX costs for \$/BF and \$/MCF

Project Name:

Condensate Shrinkage Economics

Is this job a well pull or production rig job ??? ☐ N (Y or N)

	BEFORE \$/Year	AFTER \$/Year	DIFFERENCE \$/Year
Gross Oil Revenue	\$1,088	\$1,099	\$11
Gross Gas Revenue	\$0	\$0	\$0
NGL Revenue	\$0	\$0	\$0
PULLING UNIT SERVICE			\$0
WIRELINE SERVICE			\$0
SUBSURF EQUIP REPAIRS			\$0
COMPANY LABOR			\$0
CONTRACT LABOR	\$0	\$200	\$200
CONTR SERVICE			\$0
LEASE FUEL GAS	\$0	\$0	\$0
UTILITIES - ELECTRICITY	\$0	\$0	\$0
CHEMICAL TREATING			\$0
MATERIAL & SUPPLY	\$0	\$150	\$150
WATER & HAULING			\$0
ADMINISTRATIVE COSTS			\$0
GAS PLANT PROCESSING			\$0
<b>Totals</b>	<b>\$0</b>	<b>\$350</b>	<b>\$350</b>

Increased OPX Per Year

### Investment Breakdown:

	Cap/Exp Code	Cost, \$
Capital \$	820/830/840	\$1,200
Expense \$	830/840	\$0
Total \$		\$1,200

Oil Price	\$ 23.00	\$/BO
Gas Price	\$ 3.10	\$/MCF
Electric Cost	\$ -	\$/ HP / day
OPX/BF	\$ 2.00	\$/BF
OPX/MCF	\$ 0.62	\$/MCF

### Production & OPX Detail:

	Before		After		Difference
Oil Production	0.192	BOPD	0.194	BOPD	0.002
Gas Production	0	MCFPD	0	MCFPD	0
Wtr Production	0	BWPD	0	BWPD	0
Horse Power		HP		HP	0
Fuel Gas Burned		MCFPD		MCFPD	0

### Project Life:

Life = 20.0 Years  
(Life no longer than 20 years)

### Internal Rate of Return:

After Tax IROR = #DIV/0!

### AT Cum Cashflow:

Operating Cashflow = (\$2,917) (Discounted @ 10%)

### Payout Calculation:

$$\text{Payout} = \frac{\text{Total Investment}}{\text{Sum(OPX + Incremental Revenue)}} = 1$$

Payout occurs when total AT cashflow equals investment  
See graph below, note years when cashflow reaches zero

Payout = NEVER Years or #VALUE! Days

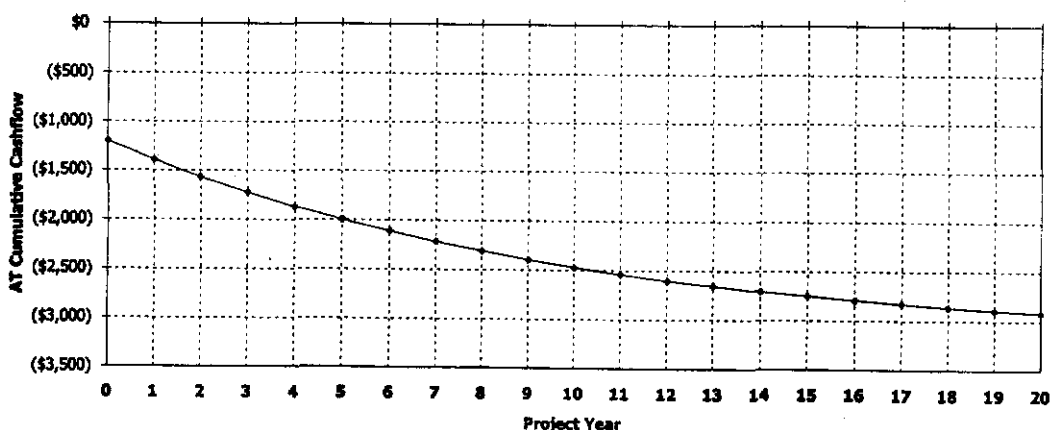
### Gross Reserves:

Oil Reserves = 4 BO  
Gas Reserves = 0 MCF  
Gas Equiv Reserves = 38 MCFE

### Notes/Assumptions:

An average NWU well produces 0.192 Bopd with no tank pressure. The production is increased to 0.194 Bopd if 4 ozs of pressure are placed on the tank. The increased production does not payout the valve cost or the estimated annual maintenance costs.

Project: Condensate Shrinkage Economics



**Westport Oil and Gas, Inc.**  
**NBU/Ouray Field**  
RFL 2003-022

**COMPARISON OF FLASH BACK PRESSURES**

Calculated by Characterized Equation-of-State

Flash Conditions		Gas/Oil Ratio ( scf/STbbl ) (A)	Specific Gravity of Flashed Gas ( Air=1.000 )	Separator Volume Factor (B)	Separator Volume Percent (C)
psig	°F				

**Calculated at Laboratory Flash Conditions**

80	70			1.019	
0	122	30.4	0.993	1.033	101.37%
0	60	0.0	—	1.000	98.14%

**Calculated Flash with Backpressure using Tuned EOS**

80	70			1.015	
6.0 oz	65	24.6	0.777	1.003	98.82%
0	60	0.0	—	1.000	98.52%
80	70			1.015	
4.0 oz	65	24.7	0.778	1.003	98.82%
0	60	0.0	—	1.000	98.52%
80	70			1.015	
2.0 oz	65	24.7	0.779	1.003	98.82%
0	60	0.0	—	1.000	98.52%
80	70			1.015	
0	65	24.8	0.780	1.003	98.82%
0	60	0.0	—	1.000	98.52%

(A) Cubic Feet of gas at 14.696 psia and 60 °F per Barrel of Stock Tank Oil at 60 °F.

(B) Barrels of oil at indicated pressure and temperature per Barrel of Stock Tank Oil at 60 °F.

(C) Oil volume at indicated pressure and temperature as a percentage of original saturated oil volume.

Note: Bubblepoint of sample in original sample container was 80 psig at 70° F with 1 cc water

WELL	LEGALS	STFLEASENO	CANUMBER	API NO
NBU 332	10-10-21 NWSW	UTU01418A	891008900A	430473364000S1
NBU 333	13-10-21 SWSW	ML23608	891008900A	430473364100S1 ✓
NBU 335	4-10-22 SENE	UTU01191	891008900A	430473372400S1
NBU 336	4-10-22 NWNE	U-01191	891008900A	430473402700S1
NBU 337	4-10-22 SENW	U-01191-A	891008900A	430473402000S1
NBU 338	5-10-22 NESE	UTU01191	891008900A	430473405800S1
NBU 339	5-10-22 NWSE	UTU01191	891008900A	430473440600S1
NBU 340	6-10-22 SWNE	UTU01195	891008900A	430473372500S1
NBU 340X	6-10-22 SWNE	UTU01195	891008900A	430473401500S1
NBU 341	6-10-22 SWNW	UTU464	891008900A	430473372600S1
NBU 342	7-10-22 NWSE	UTU468	891008900A	430473372700S1
NBU 343	8-10-22 NWNE	UTU01196C	891008900A	430473371900S1
NBU 344	8-10-22 SWNE	UTU01196C	891008900A	430473402100S1
NBU 345	10-10-22 SWNE	UTU02587	891008900A	430473370400S1 ✓
NBU 345-4E	4-10-21 SWSW	UTU01393B	891008900A	430473470000S1 ✓
NBU 347	11-10-22 NWSW	UTU01197A	891008900A	430473370900S1 ✓
NBU 348	11-10-22 SWSW	UTU01197A-ST	891008900A	430473400100S1
NBU 349	11-10-22 SWSE	UTU01197A-ST	891008900A	430473400200S1 ✓
NBU 350	14-10-22 NWNE	UTU01197A	891008900A	430473364200S1 ✓
NBU 351	30-10-22 SESE	UTU0132568A	891008900A	430473366800S1
NBU 352	9-9-21 SWNW	UTU0149767	891008900A	430473392200S1
NBU 353	27-9-21 SENW	U01194A	891008900A	430473320500S1 ✓
NBU 354	31-9-22 NENW	UTU464	891008900A	430473323100S1
NBU 356	30-9-22 NENW	U463	891008900A	430473323200S1
NBU 357	15-10-21 SWSW	UTU01791A	891008900A	430473372800S1
NBU 358	16-10-21 SESW	ML10755	891008900A	430473370800S1
NBU 359	29-10-21 NWNE	ML21330	891008900A	430473370600S1
NBU 360	29-10-22 SESW	UTU0145824	891008900A	430473377300S1
NBU 361	32-10-22 NWNW	ML22798	891008900A	430473370500S1 ✓
NBU 362	28-9-21 SESW	UTU0576	891008900A	430473377400S1
NBU 363	28-9-21 SESE	UTU0576	891008900A	430473377500S1
NBU 364	29-9-21 SESE	UTU0581	891008900A	430473377600S1
NBU 365	3-10-21 SESE	UTU0149078	891008900A	430473377700S1
NBU 366	10-10-21 NWNW	UTU0149079	891008900A	430473372900S1
NBU 367	11-10-22 NESW	UTU01197A-ST	891008900A	430473370700S1 ✓
NBU 370	17-9-21 NWSW	UTU0575	891008900A	430473467200S1 ✓
NBU 371	8-9-21 SWSE	UTU0575B	891008900A	430473467300S1 ✓
NBU 375	12-9-21 SWNE	UTU0141317	891008900A	430473444000S1 ✓
NBU 376	12-9-21 NENE	UTU0141317	891008900A	430473444100S1 ✓
NBU 377	31-9-21 NENW	UTU0582	891008900A	430473436300S1
NBU 378	31-9-21 NWNE	UTU0582	891008900A	430473436400S1
NBU 381	23-10-22 SESW	UTU01198B	891008900A	430473423400S1
NBU 382	22-10-22 SENW	U-01198-B	891008900A	430473423500S1
NBU 383	21-10-22 SESW	U-489	891008900A	430473423600S1
NBU 384	30-10-22 SENW	UTU0132568A	891008900A	430473423700S1 ✓
NBU 385	18-10-22 SENW	ML22973	891008900A	430473422800S1
NBU 386	17-10-22 NESE	UTU470	891008900A	430473423800S1
NBU 387	23-10-21 SWSE	U-02277-A	891008900A	430473423900S1
NBU 388	22-10-21 SENW	U-02278-A	891008900A	430473424000S1
NBU 389	28-10-21 NENE	ML21329	891008900A	430473422900S1
NBU 390	30-10-21 SESE	ML22793	891008900A	430473423000S1
NBU 391	17-9-21 NWNW	UTU0575	891008900A	430473487400S1
NBU 393	22-9-20 SWNW	U0577B	891008900A	430473486400S1
NBU 394	11-10-22 SWSE	UTU01197A-ST	891008900A	430473480400S1 ✓
NBU 395	27-9-21 SWSW	UTU01194A-ST	891008900A	430473437400S1 ✓
NBU 396	33-9-21 NENW	UTU0576	891008900A	430473448000S1 ✓
NBU 397	26-10-20 NESW	UTU4476	891008900A	430473436500S1
NBU 398	18-10-21 NENW	UTU02270A	891008900A	430473436600S1
NBU 399	14-10-21 NWNW	UTU465	891008900A	430473440900S1
NBU 400	16-10-21 NENW	ML10755	891008900A	430473479400S1
NBU 401	23-10-21 NENE	UTU02278A	891008900A	430473480100S1
NBU 404	32-9-22 SWSE	ML22649	891008900A	430473437500S1 ✓
NBU 405	27-9-21 NENE	UTU01194A-ST	891008900A	430473440700S1 ✓
NBU 407	32-10-22 NENW	ML22798	891008900A	430473431800S1 ✓
NBU 408	31-10-22 NENE	UTU0143551	891008900A	430473459000S1 ✓
NBU 409	32-9-21 NWSW	ML48758	891008900A	430473442100S1 ✓
NBU 410	32-9-21 SWSW	ML48758	891008900A	430473487200S1
NBU 411	32-9-21 SESE	ML48758	891008900A	430473442200S1 ✓
NBU 412	32-10-22 SENW	ML22798	891008900A	430473431900S1 ✓
NBU 413	32-10-22 SWNW	ML22798	891008900A	430473432000S1 ✓
NBU 414	31-10-22 SENE	UTU0143551	891008900A	430473438700S1
NBU 414-20E	20-9-21 NWNE	U0143551/U0575	891008900A	430473477900S1
NBU 415-20E	20-9-21 SWNE	UTU0575	891008900A	430473448900S1 ✓
NBU 416	36-9-20 SESE	ML48757	891008900A	430473442300S1 ✓
NBU 418	12-9-21 NWNW	UTU0141317	891008900A	430473477700S1

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

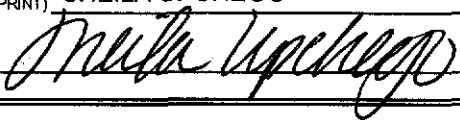
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: U-01197-A-ST
2. NAME OF OPERATOR: WESTPORT OIL & GAS COMPANY L.P.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NATURAL BUTTES UNIT
3. ADDRESS OF OPERATOR: 1368 S. 1200 E. CITY VERNAL STATE UT ZIP 84078		8. WELL NAME and NUMBER: NBU 367
PHONE NUMBER: (435) 781-7024		9. API NUMBER: 4304733707
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2500'FSL & 2220'FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESW 11 10S 22E		10. FIELD AND POOL OR WLOCAT: NATURAL BUTTES COUNTY: UTAH STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input checked="" type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 9/20/2005	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

9/20/2005; PMP 5 BBLS 2% KCL 2 DRUMS ACID & 15 BBLS 2% KCL.

NAME (PLEASE PRINT) SHEILA UPCHEGO	TITLE REGULATORY ANALYST
SIGNATURE 	DATE 10/5/2005

(This space for State use only)

RECEIVED  
OCT 12 2005  
DIV. OF OIL, GAS & MINING



Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

**ROUTING**

1. DJJ

2. CDW

**X Change of Operator (Well Sold)**

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:

**1/6/2006**

**FROM: (Old Operator):**

N2115-Westport Oil & Gas Co., LP

1368 South 1200 East

Vernal, UT 84078

Phone: 1-(435) 781-7024

**TO: ( New Operator):**

N2995-Kerr-McGee Oil & Gas Onshore, LP

1368 South 1200 East

Vernal, UT 84078

Phone: 1-(435) 781-7024

**CA No.**

**Unit:**

**NATURAL BUTTES UNIT**

**WELL NAME**

**SEC TWN RNG**

**API NO**

**ENTITY**

**LEASE**

**WELL**

**WELL**

**NO**

**TYPE**

**TYPE**

**STATUS**

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 5/10/2006

2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 5/10/2006

3. The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 3/7/2006

4a. Is the new operator registered in the State of Utah: YES Business Number: 1355743-0181

4b. If **NO**, the operator was contacted on:

5a. (R649-9-2) Waste Management Plan has been received on: IN PLACE

5b. Inspections of LA PA state/fee well sites complete on: n/a 3 LA wells & all PA wells transferred

5c. Reports current for Production/Disposition & Sundries on: ok

6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 3/27/2006 BIA not yet

**7. Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: 3/27/2006

**8. Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on: n/a

9. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, Transfer of Authority to **Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on:

**DATA ENTRY:**

1. Changes entered in the **Oil and Gas Database** on: 5/15/2006

2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 5/15/2006

3. Bond information entered in RBDMS on: 5/15/2006

4. Fee/State wells attached to bond in RBDMS on: 5/16/2006

5. Injection Projects to new operator in RBDMS on:                     

6. Receipt of Acceptance of Drilling Procedures for APD/New on: n/a Name Change Only

**BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: CO1203

2. Indian well(s) covered by Bond Number: RLB0005239

3. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number RLB0005236

a. The **FORMER** operator has requested a release of liability from their bond on: n/a rider added KMG

The Division sent response by letter on:                     

**LEASE INTEREST OWNER NOTIFICATION:**

4. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 5/16/2006

**COMMENTS:**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

5. Lease Serial No.

MULTIPLE LEASES

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

MUTIPLE WELLS

9. API Well No.

10. Field and Pool, or Exploratory Area

11. County or Parish, State

UINTAH COUNTY, UTAH

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

KERR-McGEE OIL & GAS ONSHORE LP

3a. Address

1368 SOUTH 1200 EAST VERNAL, UT 84078

3b. Phone No. (include area code)

(435) 781-7024

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SEE ATTACHED

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other CHANGE OF OPERATOR
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

PLEASE BE ADVISED THAT KERR-McGEE OIL & GAS ONSHORE LP, IS CONSIDERED TO BE THE OPERATOR OF THE ATTACHED WELL LOCATIONS. EFFECTIVE JANUARY 6, 2006.

KERR-McGEE OIL & GAS ONSHORE LP, IS RESPONSIBLE UNDER TERMS AND CONDITIONS OF THE LEASE(S) FOR THE OPERATIONS CONDUCTED UPON LEASE LANDS. BOND COVERAGE IS PROVIDED BY STATE OF UTAH NATIONWIDE BOND NO. RLB0005237.

RECEIVED

MAY 10 2006

DIV. OF OIL, GAS & MINING

BLM BOND = C01203

BIA BOND = RLB0005239

APPROVED 5/16/06

Earlene Russell

Division of Oil, Gas and Mining  
Earlene Russell, Engineering Technician

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

RANDY BAYNE

Title

DRILLING MANAGER

Signature

Date

May 9, 2006

THIS SPACE FOR FEDERAL OR STATE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

5. Lease Serial No.

MULTIPLE LEASES

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

MUTIPLE WELLS

9. API Well No.

10. Field and Pool, or Exploratory Area

11. County or Parish, State

UINTAH COUNTY, UTAH

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

WESTPORT OIL & GAS COMPANY L.P.

3a. Address

1368 SOUTH 1200 EAST VERNAL, UT 84078

3b. Phone No. (include area code)

(435) 781-7024

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SEE ATTACHED

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other CHANGE OF OPERATOR
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

EFFECTIVE JANUARY 6, 2006, WESTPORT OIL & GAS COMPANY L.P., HAS RELINQUISHED THE OPERATORSHIP OF THE ATTACHED WELL LOCATIONS TO KERR-McGEE OIL & GAS ONSHORE LP.

APPROVED 5/16/06

Earlene Russell  
Division of Oil, Gas and Mining  
Earlene Russell, Engineering Technician

RECEIVED

MAY 10 2006

DIV OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

BRAD LANEY

Title

ENGINEERING SPECIALIST

Signature

Date

May 9, 2006

THIS SPACE FOR FEDERAL OR STATE USE

Approved by

Brad Laney

Title

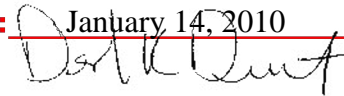
Date

5-9-06

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> U-01197-A-ST
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 367
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2500 FSL 2220 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NESW Section: 11 Township: 10.0S Range: 22.0E Meridian: S		<b>9. API NUMBER:</b> 43047337070000
<b>PHONE NUMBER:</b> 720 929-6007 Ext		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 1/15/2010  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION         </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER         </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input checked="" type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION            OTHER: _____         </div> </div>	
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> THE OPERATOR REQUESTS AUTHORIZATION TO TEMPORARILY ABANDON THE SUBJECT WELL LOCATION. THE OPERATOR PROPOSES TO TEMPORARILY ABANDON THE WELL TO DRILL THE NBU 1022-11K PAD WELLS, WHICH CONSIST OF NBU 1022-11K1T, NBU 1022-11K2S, NBU 1022-11F4S, AND NBU 1022-11J3S. PLEASE REFER TO THE ATTACHED TEMPORARILY ABANDON PROCEDURE.		
<b>Approved by the Utah Division of Oil, Gas and Mining</b>  <b>Date:</b> January 14, 2010 <b>By:</b> 		
<b>NAME (PLEASE PRINT)</b> Andy Lytle		<b>PHONE NUMBER</b> 720 929-6100
<b>SIGNATURE</b> N/A		<b>TITLE</b> Regulatory Analyst
<b>DATE</b> 1/13/2010		

NBU 367  
 2500' FSL & 2220' FWL  
 NENESW SEC.11, T10S, R22E  
 Uintah County, UT

KBE:	5139'	API NUMBER:	43-047-33707
GLE:	5124'	LEASE NUMBER:	UTU-01194-A-ST
TD:	6814'	WINS #:	71866
PBTD:	6764'	WI:	100.0000%
		NRI:	78.702949%

**CASING:** 12 1/4" hole  
 8 5/8" 24# J-55 @ 255' (GL)  
 Cement w/ 142 sx class G, TOC at surface

7.875" hole  
 4 1/2" 11.6# K-55 @ 6814'  
 Cement w/ 335 sks HiLift lead and 867 sks 50/50 Poz tail  
 TOC @ 2290' per CBL

**TUBING:** 2 3/8" 4.7# J-55 tubing landed at 6478'

Tubular/Borehole	Drift inches	Collapse psi	Burst psi	Capacities		
				Gal./ft.	Cuft/ft.	Bbl./ft.
2.375" 4.7# J-55 tbg.	1.901	8100	7700	0.1624	0.02173	0.00387
4.5" 11.6# J/K-55	3.875	4960	5350	0.6528	0.0872	0.01554
8.625" 24# J-55	8.097	1370	2950	2.6749	0.3537	0.0636
<b>Annular Capacities</b>						
2.3/8" tbg. X 4 1/2" 17# csg				0.4226	0.0565	0.01006
4.5" csg X 8 5/8" 24# csg				1.8487	0.2471	0.044
4.5" csg X 7 7/8 borehole				1.704	0.2278	0.0406
8.5/8" csg X 12 1/4" borehole				3.0874	0.4127	0.0735

#### GEOLOGIC INFORMATION:

Formation	Depth to top, ft.
Uinta	Surface
Green River	960'
Wasatch	4047'
Mesa Verde	6488'

#### Tech. Pub. #92 Base of USDW's

USDW Elevation	500' MSL
USDW Depth	4639'KBE

**PERFORATIONS:**

Formation	Date	Top	Btm	Spf	Status
Wasatch	6/12/2002	6,228	6,234	4	Open
Wasatch	6/12/2002	6,297	6,301	2	Open
Wasatch	6/12/2002	6,312	6,316	2	Open
Wasatch	6/12/2002	6,352	6,356	2	Open
Wasatch	6/12/2002	6,470	6,474	2	Open
Mesaverde	6/12/2002	6,500	6,502	2	Open
Mesaverde	6/12/2002	6,552	6,556	2	Open
Mesaverde	6/12/2002	6,570	6,574	2	Open
Mesaverde	6/12/2002	6,690	6,700	3	Open

**WELL HISTORY:**

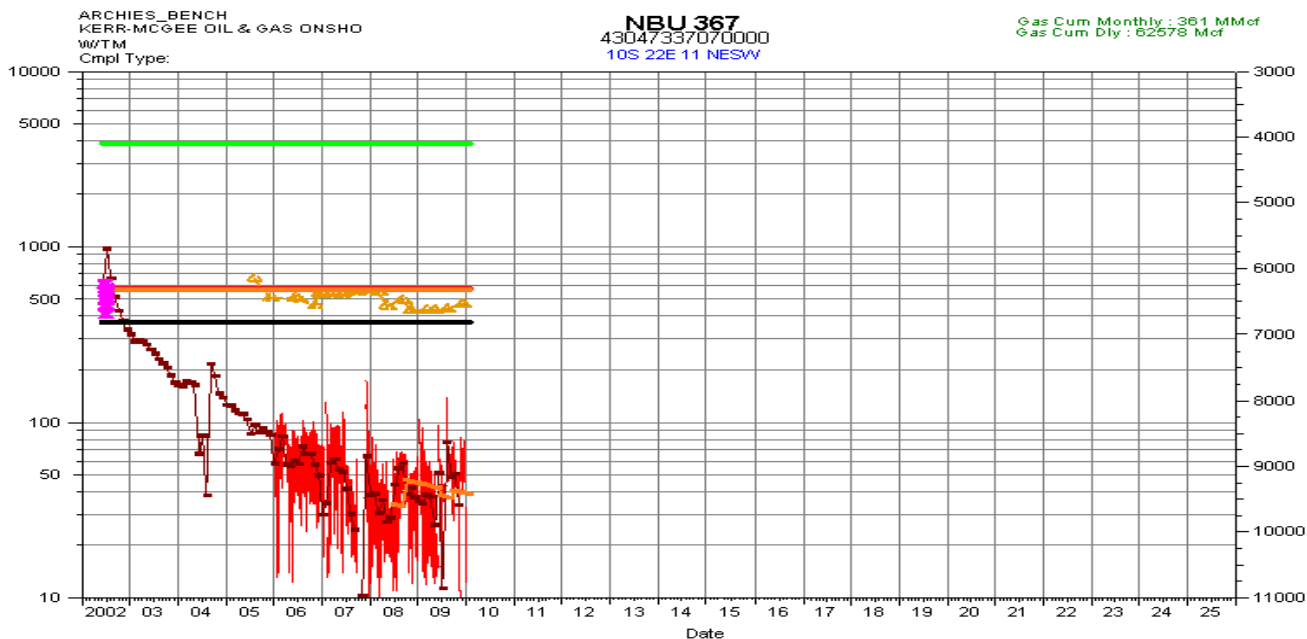
- 4/10/02 – Well Spud, 4/28/02 – TD @ 6814'
- 6/12/02 – Perf & frac gross Was/Mv intervals f/ 6228 – 6700' in 4 stages using 351,780# 20/40 sand and 3478 bbls gel fluid. Drill out cbp's, flow well back and place on sales 6/22/02.
- 6/24/02 – Well IP'd, FLWG 1758 MCF, 214 BW, FTP: 369#, CP: 818#, 64/64" CHK, 24 HRS, LP: 246#.
- 8/24/04 – Free-point stuck tbg

**REMARKS:**

- Land Exploration/Operations - Natural Buttes Unit well. Okay to TA. Geology -
- Reservoir Engineering - Well is currently up for temporarily abandonment due to drilling operations for the NBU 1022-11K pad wells. Recommend TA due to remaining reserves of 142MMCF and current production rate of 40 mcf/d. Plan to return to production after completions of 11K pad are completed. See plot below. BT 11/2/2009
- Operations Engineering - Most recent production (since August 2009) has been >50MCFD with 225psi csg. Installed a plunger this summer and is currently running in timer mode, which has made the well significantly more consistent and productive than the graph below suggests. Recommend TA & RTP after completions. TH 11/2/2009.

**Recommended future action for disposition of well bore:**

Temporarily abandon the wellbore during the drilling and completion operations of the NBU 1022-11K pad wells (1022-11K1T, 1022-11K2S, & 1022-11J3S). Return to production as soon as possible once completions are done.



## **NBU 367 TEMPORARY ABANDONMENT PROCEDURE**

### **GENERAL**

- H<sub>2</sub>S MAY BE PRESENT. CHECK FOR H<sub>2</sub>S AND TAKE APPROPRIATE PRECAUTIONS.
- CEMENT QUANTITIES BELOW ASSUME NEAT CLASS G, YIELD 1.145 CUFT./SX. IF A DIFFERENT PRODUCT IS USED, WELLSITE PERSONNEL ARE RESPONSIBLE FOR CORRECTING QUANTITIES TO YIELD THE STATED SLURRY VOLUME. WHEN SQUEEZING, INCLUDE 10% EXCESS PER 1000' OF DEPTH.
- TREATED FRESH WATER WILL BE PLACED BETWEEN ALL PLUGS INSTEAD OF BRINE.
- ALL DISPLACEMENT FLUID SHALL CONTAIN CORROSION INHIBITOR AND BIOCIDES. PREMIX 5 GALLONS PER 100 BBLS FLUID.
- NOTIFY BLM/UDOGM 24 HOURS BEFORE MOVING ON LOCATION.

### **PROCEDURE**

**Note: An estimated 19 sx Class "G" cement needed for procedure**

**Note: No Gyro has been run at this time**

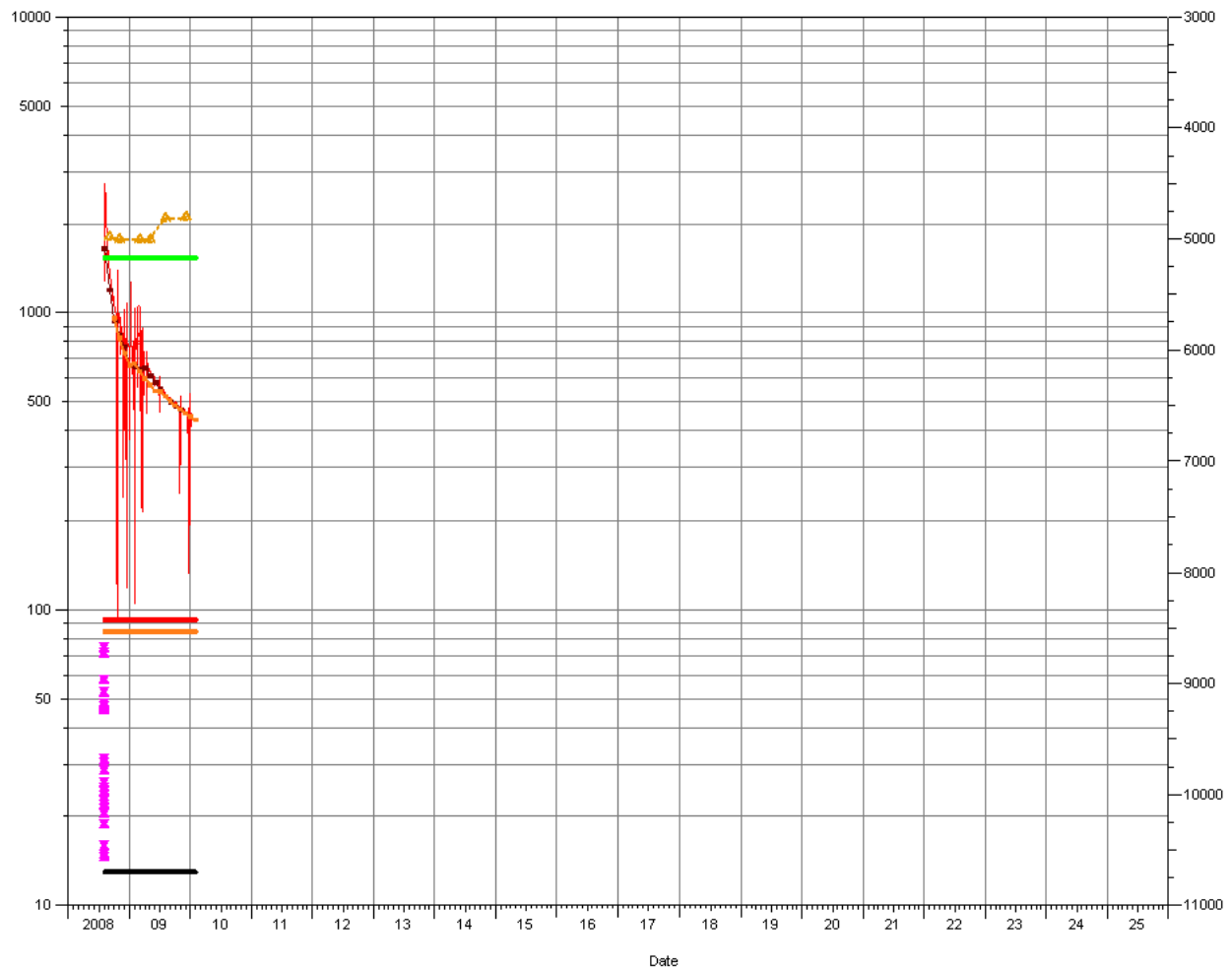
1. MIRU. KILL WELL AS NEEDED. ND WH, NU AND TEST BOPE.
2. PULL TBG & LD SAME. RU WIRELINE AND MAKE A GAUGE RING RUN TO CHECK FOR FILL.
3. RUN GYRO SURVEY IF NOT COMPLETE AT TIME OF MIRU.
4. **PLUG #1, ISOLATE MESAVERDE/WASATCH PERFORATIONS (6228' - 6700')**: RIH W/ 4 ½" CBP. SET @ ~6178'. RELEASE CBP, PUH 10', BRK CIRC W/ FRESH WATER. PRESSURE TEST CASING TO 500 PSI. INFORM ENGINEERING IF IT DOESN'T TEST. DISPLACE A MINIMUM OF 4.36 CUFT CMT (4 SX) ON TOP OF PLUG. PUH ABOVE TOC (~6128'). REVERSE CIRCULATE W/ TREATED FRESH WATER.
5. **PLUG #2, PROTECT WASATCH TOP (4047')**: PUH TO ~4147'. BRK CIRC W/ FRESH WATER. DISPLACE 17.44 CUFT. (15 SX) AND BALANCE PLUG W/ TOC @ ~3947' (200' COVERAGE). PUH ABOVE TOC. REVERSE CIRCULATE W/ TREATED FRESH WATER.
6. LOWER WELLHEAD TO GROUND LEVEL TO ACCOMMODATE DRILLING OPS AND INSTALL MARKER PER BLM GUIDELINES.
7. RDMO. TURN OVER TO DRILLING OPERATIONS.

ALM 1/13/10

NBU\_WEST  
KERR-MCGEE OIL & GAS QNSHO  
TM/MM  
Cmpl Type:

**NBU 920-14M**  
43047377530000  
09S 20E 14 SWSW

Gas Cum Monthly : 359 MMcf  
Gas Cum Dly : 374668 Mcf





<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> U-01197-A-ST
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 367
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2500 FSL 2220 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NESW Section: 11 Township: 10.0S Range: 22.0E Meridian: S		<b>9. API NUMBER:</b> 43047337070000
<b>PHONE NUMBER:</b> 720 929-6007 Ext		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> <b>ACIDIZE</b>	
<input checked="" type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion: 2/19/2010	<input type="checkbox"/> <b>CHANGE TO PREVIOUS PLANS</b>	
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> <b>CHANGE WELL STATUS</b>	
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> <b>DEEPEN</b>	
	<input type="checkbox"/> <b>OPERATOR CHANGE</b>	
	<input type="checkbox"/> <b>PRODUCTION START OR RESUME</b>	
	<input type="checkbox"/> <b>REPERFORATE CURRENT FORMATION</b>	
	<input type="checkbox"/> <b>TUBING REPAIR</b>	
	<input type="checkbox"/> <b>WATER SHUTOFF</b>	
	<input type="checkbox"/> <b>WILDCAT WELL DETERMINATION</b>	
	<input type="checkbox"/> <b>ALTER CASING</b>	
	<input type="checkbox"/> <b>CHANGE TUBING</b>	
	<input type="checkbox"/> <b>COMMINGLE PRODUCING FORMATIONS</b>	
	<input type="checkbox"/> <b>FRACTURE TREAT</b>	
	<input type="checkbox"/> <b>PLUG AND ABANDON</b>	
	<input type="checkbox"/> <b>RECLAMATION OF WELL SITE</b>	
	<input type="checkbox"/> <b>SIDETRACK TO REPAIR WELL</b>	
	<input type="checkbox"/> <b>VENT OR FLARE</b>	
	<input type="checkbox"/> <b>SI TA STATUS EXTENSION</b>	
	<input type="checkbox"/> <b>OTHER</b>	
	<input type="checkbox"/> <b>CASING REPAIR</b>	
	<input type="checkbox"/> <b>CHANGE WELL NAME</b>	
	<input type="checkbox"/> <b>CONVERT WELL TYPE</b>	
	<input type="checkbox"/> <b>NEW CONSTRUCTION</b>	
	<input type="checkbox"/> <b>PLUG BACK</b>	
	<input type="checkbox"/> <b>RECOMPLETE DIFFERENT FORMATION</b>	
	<input checked="" type="checkbox"/> <b>TEMPORARY ABANDON</b>	
	<input type="checkbox"/> <b>WATER DISPOSAL</b>	
	<input type="checkbox"/> <b>APD EXTENSION</b>	
	OTHER: _____	
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> THE OPERATOR HAS PERFORMED THE TEMPORARILY ABANDON OPERATIONS ON THE SUBJECT WELL ON 2/19/2010. THE OPERATOR HAS TA'D THE WELL IN ORDER TO DRILL THE NBU 1022-11K PAD. PLEASE REFER TO THE ATTACHED TEMPORARILY ABANDON CHRONOLOGICAL WELL HISTORY.		
<b>Accepted by the</b> <b>Utah Division of</b> <b>Oil, Gas and Mining</b> <b>FOR RECORD ONLY</b> February 24, 2010		
<b>NAME (PLEASE PRINT)</b> Andy Lytle	<b>PHONE NUMBER</b> 720 929-6100	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 2/23/2010	

**US ROCKIES REGION**  
**Operation Summary Report**

Well: NBU 367

Spud Date: 4/10/2002

Project: UTAH-UINTAH

Site: NBU 367

Rig Name No: DOUBLE HOOK/UNK

Event: ABANDONMENT

Start Date: 2/11/2010

End Date: 2/19/2010

Active Datum: RKB @0.00ft (above Mean Sea Level)

UWI: NBU 367

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
2/18/2010	7:00 - 7:30	0.50	SUSPEN	48		P		HSM, MOVING EQUIP ON MUDDY ROADS.
	7:30 - 14:00	6.50	SUSPEN	30	A	P		MIRU, CONTROL WELL W/ 30 BBLS, ND WH, NU BOPS, RU FLOOR,
	14:00 - 17:00	3.00	SUSPEN	31	I	P		RU PRS, POOH 2-3/8 TBG, HAD 59 JTS OF YELLOW, 61 JTS OF BLUE & 90 JTS OF RED. TOTAL OF 210 JTS. RD PRS. SWI, SDFN.
2/19/2010	7:00 - 7:30	0.50	SUSPEN	48		P		HSM, WORKING W/ WIRELINE.
	7:30 - 17:00	9.50	SUSPEN	31	I	P		SICP. 550 PSI. RU WIRELINE, RIH W/3.62 GAUGE RING TO 6200', POOH W/ GAUGE RING, RIH W/ 8K CBP & SET @ 6178'. RIH NOTCH COLLAR & SN.& 2-3/8 TBG, TAG CBP !@ 6178'. PUH 15' FROM PLUG RU PRO PETRO, DISPLACE HOLE FULL OF 2% KCL WTR, W/ 90 BBLS. PRESSURE TEST CSG TO 500 PSI. FOR 10 MINS. HELD OK. PUMP 2.6 BBLS FRESH, 2.5 BBLS OF CLASS G 15.8 LBS, 1.15 YEILD CMT. 1 BBL FRESH, DISP W/ 22 BBLS KCL WTR. LD 66 JTS, EOT @ 4131'. PUMP 2.6 FRESH, 31.1 CMT CLASS G, 15.8 LBS, 1.15 YEILD, 1BBL FRESH, DISP W/ 14.1 BBLS, LD REM 143 JTS 2-3/8 TBG, ON FLOAT. RD FLOOR, ND BOPS, REMOVE B SECTION, INSTALL WITCH HAT.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
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<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 367
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2500 FSL 2220 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NESW Section: 11 Township: 10.0S Range: 22.0E Meridian: S		<b>9. API NUMBER:</b> 43047337070000
<b>PHONE NUMBER:</b> 720 929-6515 Ext		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>COUNTY:</b> UTAH		<b>STATE:</b> UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION
<input checked="" type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion: 2/18/2011	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
 This previously temporarily abandoned well has returned to production. This well returned to production on 2/18/2011.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**

<b>NAME (PLEASE PRINT)</b> Andy Lytle	<b>PHONE NUMBER</b> 720 929-6100	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 2/22/2011	

**US ROCKIES REGION**  
**Operation Summary Report**

Well: NBU 367

Spud Date: 4/10/2002

Project: UTAH-UINTAH

Site: NBU 1022-11K PAD

Rig Name No: LEED 733/733

Event: WELL WORK EXPENSE

Start Date: 9/13/2010

End Date: 9/15/2010

Active Datum: RKB @0.00ft (above Mean Sea Level)

UWI: NBU 367

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
9/14/2010	7:00 - 7:15	0.25	COMP	48		P		JSA- RD/RU. ND/NU. PU TBG.
	7:15 - 14:00	6.75	COMP	31	I	P		RDSU FROM 11F4S. MOVE OVER AND RUSU. ND WH. NU BOP. RU FLOOR AND TBG EQUIP. MU 3-7/8" BIT, BIT SUB, 1.87" XN NIPPLE AND RIH AS MEAS AND PU126 -JTS 2-3/8" J-55 YELLOWBAND TBG. TAG CMT AT 3966'. RU DRLG EQUIP.
	14:00 - 16:30	2.50	COMP	44	A	P		EST REV CIRC AND D/O 175' CMT FROM 3966' TO 4141' W/ 131-JTS IN. CIRC CLEAN. RD PWR SWIVEL.
	16:30 - 17:30	1.00	COMP	31	I	P		RIH AS MEAS AND PU TBG. HAVE 163-JTS IN. EOT AT 5161'. SDFN
9/15/2010	7:00 - 7:15	0.25	COMP	48		P		JSA- D/O PLUGS. C/O PBTD.
	7:15 - 8:00	0.75	COMP	31	I	P		SITP 0, SICP 0. CONT RIH AS MEAS AND PU TBG. TAG 6178' W/ 195-JTS IN. RU PWR SWIVEL. ACTS LIKE DRLG CBP NOT CMT. REV CIRC CLEAN. CMT STILL LIQUID, NOT SET UP. HOOK UP N2/FOAM AND CIRC CONV.
	8:00 - 10:00	2.00	COMP	44	C	P		GET N2/FOAM DOWN AND AROUND AS CONT PUMP 1 BPM W/ RIG PMP. D/O CBP AT 6178' IN 35 MIN. 25# INC. CIRC CLEAN. PMP 15 BBLS DOWN TBG. HANG PWR SWIVEL.
	10:00 - 12:00	2.00	COMP	31	I	P		CONT RIH AS PU TBG. TAG AT 6683' W/ 212-JTS IN. PU PWR SWIVEL. START N2/FOAM DOWN TBG AND EST CIRC. ATTEMPT TO C/O- ACTS LIKE POBS. CIRC CLEAN. RD PWR SWIVEL.
	12:00 - 17:00	5.00	COMP	31	I	P		POOH AS LD 8 JTS AND SM 204 JTS. CONTROL WELL W/ 20 BBLS. LD BIT AND BIT SUB. MU NOTCHED FE 1.87" XN AND RIH W/ 204-JTS 2-3/8" J-55 TBG. PU 7" 5K HANGER AND LAND 204-JTS J-55 W EOT AT 6474.39'. RU SANDLINE AND RUN 1.91" BROACH TO EOT. GOOD. RD FLOOR. ND BOP. NU WH. SDFN. WILL RDMO IN AM
<div> <div>TBG DETAIL</div> <div>KB</div> <div>15.00</div> <div>229-JTS</div> </div> <div> <div>DELIVERED</div> <div></div> <div></div> <div></div> </div> <div> <div>7" 5K HANGER</div> <div></div> <div>1.00</div> <div>25-JTS</div> </div> <div> <div>RETURNED</div> <div></div> <div></div> <div></div> </div> <div> <div>204-JTS J-55 TBG</div> <div>6457.34</div> <div></div> <div>LTR 40 BBLS.</div> </div> <div> <div>NOTCHED FE 1.87" XN</div> <div>1.05</div> <div></div> <div></div> </div> <div> <div>EOT</div> <div>6474.39</div> <div></div> <div></div> </div>								

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
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<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 367
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2500 FSL 2220 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NESW Section: 11 Township: 10.0S Range: 22.0E Meridian: S		<b>9. API NUMBER:</b> 43047337070000
<b>PHONE NUMBER:</b> 720 929-6515 Ext		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> APD EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 9/26/2011		
<input type="checkbox"/> SPUD REPORT Date of Spud:		
<input type="checkbox"/> DRILLING REPORT Report Date:		
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> THE SUBJECT WELL WAS RETURNED TO PRODUCTION ON 09/23/2011		
<b>Accepted by the          Utah Division of          Oil, Gas and Mining          FOR RECORD ONLY</b>		
<b>NAME (PLEASE PRINT)</b> Sheila Wopsock	<b>PHONE NUMBER</b> 435 781-7024	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 10/7/2011	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> U-01197-A-ST
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 367
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2500 FSL 2220 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NESW Section: 11 Township: 10.0S Range: 22.0E Meridian: S		<b>9. API NUMBER:</b> 43047337070000
<b>PHONE NUMBER:</b> 720 929-6514		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH
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<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> OTHER	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 12/28/2011	<input type="checkbox"/> SPUD REPORT Date of Spud:	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. <div style="text-align: center; margin-top: 20px;"> <b>THE SUBJECT WELL WAS RETURNED BACK TO PRODUCTION ON</b>  <b>12/28/2011.</b> </div> <div style="text-align: right; margin-top: 20px;"> <b>Accepted by the</b>  <b>Utah Division of</b>  <b>Oil, Gas and Mining</b>  <b>FOR RECORD ONLY</b>          January 12, 2012       </div>		
<b>NAME (PLEASE PRINT)</b> Sheila Wopsock	<b>PHONE NUMBER</b> 435 781-7024	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 1/12/2012	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> U-01197-A-ST
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
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<b>PHONE NUMBER:</b> 720 929-6111		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>COUNTY:</b> UTAH		<b>STATE:</b> UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA


TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: <b>3/31/2015</b>	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input checked="" type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:			
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:			
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  

Kerr-McGee Oil & Gas Onshore, LP respectfully requests to plug and abandon the NBU 367 well. Please see the attached procedure for details. Thank you.

**Approved by the  
Utah Division of  
Oil, Gas and Mining**

**Date:** April 15, 2015

**By:** 

Please Review Attached Conditions of Approval

<b>NAME (PLEASE PRINT)</b> Kristina Geno	<b>PHONE NUMBER</b> 720 929-6824	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 3/30/2015	



**The Utah Division of Oil, Gas, and Mining**

- State of Utah  
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Sundry Conditions of Approval Well Number 43047337070000**

- 1. Notify the Division at least 24 hours prior to conducting abandonment operations. Please call Dan Jarvis at 801-538-5338.**
- 2. Move Plug #2: Plug should be moved uphole  $\pm 400'$  and shall be balanced from  $\pm 4139'$  to  $3600'$ . This will isolate the Base of Moderately Saline Groundwater and the Wasatch Formation.**
- 3. Note Plug #4: If circulation down the  $4 \frac{1}{2}"$  casing back up the  $4 \frac{1}{2}" \times 9 \frac{5}{8}"$  annulus is established. If injection is established: RIH with CICR and set @  $1900'$  ( $50'$  above perfs). . M&P 301 sx cement minimum, sting into CICR pump 290 sx, sting out and dump 11 sx on top of CICR. If injection into the perfs cannot be established a  $200'$  plug ( $\pm 16$  sx) shall be balanced from  $\pm 2000'$  to  $1800'$ .**
- 4. Amend Plug #5: If squeeze @  $1950'$  is not successful: Perf @  $\pm 1393'$ , establish circulation down the  $4 \frac{1}{2}"$  casing back up the  $4 \frac{1}{2}" \times 9 \frac{5}{8}"$  annulus. If injection into the perfs cannot be established a  $500'$  plug ( $\pm 38$  sx) shall be balanced from  $\pm 1400'$  to  $900'$ . If injection is established: RIH with CICR and set @  $1340'$  ( $50'$  above perfs). M&P 171 sx cement, sting into CICR pump 135 sx, sting out and dump 36 sx on top of CICR. This will isolate the top of the Parachute Creek Member as required by Cause 190-5(B).**
- 5. All balanced plugs shall be tagged to ensure that they are at the depth specified.**
- 6. All annuli shall be cemented from a minimum depth of  $100'$  to the surface.**
- 7. Surface reclamation shall be done in accordance with R649-3-34 – Well Site Restoration.**
- 8. All requirements in the Oil and Gas Conservation General Rule R649-3-24 shall apply.**
- 9. If there are any changes to the procedure or the wellbore configuration, notify Dustin Doucet at 801-538-5281 (ofc) or 801-733-0983 (home) prior to continuing with the procedure.**
- 10. All other requirements for notice and reporting in the Oil and Gas Conservation General Rules shall apply.**



4/14/2015

## Wellbore Diagram

r263

API Well No: 43-047-33707-00-00

Permit No:

Well Name/No: NBU 367

Company Name: KERR-MCGEE OIL &amp; GAS ONSHORE, L.P.

Location: Sec: 11 T: 10S R: 22E Spot: NESW

Coordinates: X: 635908 Y: 4424876

Field Name: NATURAL BUTTES

County Name: UINTAH

## String Information

String	Bottom (ft sub)	Diameter (inches)	Weight (lb/ft)	Length (ft)	Capacity (f/cf)
HOL1	255	12.25			
SURF	255	8.625	24	255	
HOL2	6814	7.875			
PROD	6814	4.5	11.6	6814	11.459
T1	6651	2.375			

Cement from 255 ft. to surface

Surface: 8.625 in. @ 255 ft.

Hole: 12.25 in. @ 255 ft.

Plug #6

7 7/8" x 4 1/2" (108)

3.347

8 5/8" x 4 1/2"

4.046

$$255' / (1.15) (4.046) = 55.5x$$

$$255' / (1.15) (11.459) = 20.7x$$

75% OK

Plug #5  
IF NO INJ. @ 1950' - pump 1355x below 1950' → 385x as proposed ✓  
CICR @ 1340' w/ success 592' Cement Information

String	BOC (ft sub)	TOC (ft sub)	Class	Sacks
PROD	6814	2290	LT	335
PROD	6814	2290	PC	867
SURF	255	0	G	142

\* Plug #4  
IF INJ. CICR @ 1900'  
Below 50' / (1.15) (11.459) = 4.5x  
OUT 1000' / (1.15) (3.347) = 286x  
Above 150' / (1.15) (11.459) = 11.5x

Plug #3

15x inside 286x outside

(16.5x) (1.15) (11.459) = 2.10

TOC @ 2472'

## Perforation Information

Top (ft sub)	Bottom (ft sub)	Shts/Ft	No Shts	Dt Squeeze
6228	6474			
6500	6700			

\* Plug #2

\* move up hole ± 400' (4139' to 3600')

(41.5x) (1.15) (11.459) = 540'

TOC @ 3600' ✓ OK

## Formation Information

Formation	Depth
UNTA	0
GRRV	960
MHGBN	1849
PARCK	2582
BMSW	3500
WSTC	4104
MVRD	6488

Plug #1

(8.5x) (1.15) (11.459) = 105'

TOC @ 6080' ✓ OK

Cement from 6814 ft. to 2290 ft.

Tubing: 2.375 in. @ 6651 ft.

Production: 4.5 in. @ 6814 ft.

Hole: 7.875 in. @ 6814 ft.

TD: 6814 TVD: PBTd: 6764

NBU 367  
 2500' FSL & 2220' FWL  
 NENESW SEC.11, T10S, R22E  
 Uintah County, UT

KBE:	5139'	API NUMBER:	43-047-33707
GLE:	5124'	LEASE NUMBER:	UTU-01197-A-ST
TD:	6814'	WINS #:	71866
PBTD:	6764'	WI:	100.0000%
		NRI:	78.702949%

**CASING:** 12 1/4" hole  
 8 5/8" 24# J-55 @ 255' (GL)  
 Cement w/ 142 sx class G, TOC at surface

7.875" hole  
 4 1/2" 11.6# K-55 @ 6814'  
 Cement w/ 335 sks HiLift lead and 867 sks 50/50 Poz tail  
 TOC @ 2290' per CBL

**TUBING:** 2 3/8" 4.7# J-55 tubing landed at 6474'

Tubular/Borehole	Drift inches	Collapse psi	Burst psi	Capacities		
				Gal./ft.	Cuft/ft.	Bbl./ft.
2.375" 4.7# J-55 tbg.	1.901	8100	7700	0.1624	0.02173	0.00387
4.5" 11.6# J/K-55	3.875	4960	5350	0.6528	0.0872	0.01554
8.625" 24# J-55	8.097	1370	2950	2.6749	0.3537	0.0636
<b>Annular Capacities</b>						
2.3/8" tbg. X 4 1/2" 17# csg				0.4226	0.0565	0.01006
4.5" csg X 8 5/8" 24# csg				1.8487	0.2471	0.044
4.5" csg X 7 7/8 borehole				1.704	0.2278	0.0406
8.5/8" csg X 12 1/4" borehole				3.0874	0.4127	0.0735

#### GEOLOGIC INFORMATION:

<b>Formation</b>	<b>Depth to top, ft.</b>
Uinta	Surface
Green River	1007'
Bird's Nest	1293'
Mahogany	1849'
Base of Parachute	2582'
Wasatch	4104'
Mesaverde	6334'

**Tech. Pub. #92 Base of USDW's**  
**USDW Elevation** ~700' MSL  
**USDW Depth** ~4439' KBE

**PERFORATIONS:**

Formation	Date	Top	Btm	Spf	Status
Wasatch	6/12/2002	6,228	6,234	4	Open
Wasatch	6/12/2002	6,297	6,301	2	Open
Wasatch	6/12/2002	6,312	6,316	2	Open
Wasatch	6/12/2002	6,352	6,356	2	Open
Wasatch	6/12/2002	6,470	6,474	2	Open
Mesaverde	6/12/2002	6,500	6,502	2	Open
Mesaverde	6/12/2002	6,552	6,556	2	Open
Mesaverde	6/12/2002	6,570	6,574	2	Open
Mesaverde	6/12/2002	6,690	6,700	3	Open

**WELL HISTORY:**

- 4/10/02 – Well Spud, 4/28/02 – TD @ 6814’
- 6/12/02 – Perf & frac gross Was/Mv intervals f/ 6228 – 6700’ in 4 stages using 351,780# 20/40 sand and 3478 bbls gel fluid. Drill out cbp’s, flow well back and place on sales 6/22/02.
- 6/24/02 – Well IP’d, FLWG 1758 MCF, 214 BW, FTP: 369#, CP: 818#, 64/64” CHK, 24 HRS, LP: 246#.
- 8/24/04 – Free-point stuck tbg
- 2/19/2010 – T&A’d well for pad development
- 9/15/2010 – D.O. T&A plugs and RIH and C/O to 6682’ (old POBS). RIH and land 2 3/8” J-55 tubing @ 6474’.
- 4/14/2014 – Last Slickline – Pulled plunger @ 6390’. Run broach to 6390’. Dropped external latch plunger.

## **PLUG & ABANDONMENT PROCEDURE**

### **GENERAL**

- H<sub>2</sub>S MAY BE PRESENT. CHECK FOR H<sub>2</sub>S AND TAKE APPROPRIATE PRECAUTIONS.
- CEMENT QUANTITIES BELOW ASSUME NEAT CLASS G, YIELD 1.145 CUFT./SX. IF A DIFFERENT PRODUCT IS USED, WELLSITE PERSONNEL ARE RESPONSIBLE FOR CORRECTING QUANTITIES TO YIELD THE STATED SLURRY VOLUME. WHEN SQUEEZING, INCLUDE 10% EXCESS PER 1000' OF DEPTH.
- TREATED FRESH WATER WILL BE PLACED BETWEEN ALL PLUGS INSTEAD OF BRINE.
- ALL DISPLACEMENT FLUID SHALL CONTAIN CORROSION INHIBITOR AND BIOCIDES. PREMIX 5 GALLONS PER 100 BBLs FLUID.
- NOTIFY BLM/UDOGM 24 HOURS BEFORE MOVING ON LOCATION.

### **PROCEDURE**

**Note: An estimated 194 sx Class "G" cement needed for procedure, plus volume for cement squeeze.**

**Note: Gyro was run to 6400' on 4-14-2008.**

NO GYRO IS NEEDED IN THIS WELL

1. MIRU. KILL WELL AS NEEDED. ND WH, NU AND TEST BOPE.
2. PULL TBG & LD SAME. RU WIRELINE AND MAKE A GAUGE RING RUN TO CHECK FOR FILL.
3. **PLUG #1, ISOLATE MESAVERDE/WASATCH PERFORATIONS (6228' - 6700'):** TIH AND SET A CIBP @ 6180'. SET CIBP & PUH 10'. CIRCULATE ENTIRE HOLE W/ TREATED FRESH WATER. PRESSURE TEST CASING. SET A ±105' CEMENT BALANCED PLUG (8 SXS, 9.2 CUFT, 1.6 BBLs) ON TOP OF CIBP. TOC @ ±6075'.
4. **PLUG #2, PROTECT USDW (4439') & WASATCH TOP (4104'):** TOOH TO 4539'. SET A CEMENT BALANCED PLUG FROM 4539' - 4000' (539' COVERAGE) WITH (41 SXS, 47 CUFT / 8.4 BBL).
5. **PLUG #3, PROTECT BASE OF PARACHUTE (~2582'):** PUH TO ~2682. SET A CEMENT BALANCED PLUG FROM 2682' - 2472 (210' COVERAGE) WITH (16 SXS / 18.3 CUFT / 3.3 BBL).
6. **CBL SHOWED TOC ±2290' ON BACKSIDE OF 4 ½".** POOH. RIH & PERFORATE 4 ½" CASING @ 1950' AND TRY TO ESTABLISH CIRCULATION. IF YOU CAN PUMP INTO PERFS, RIH IN HOLE WITH A CIRC AND PUMP A CEMENT SQUEEZE TO GET CEMENT ON BACKSIDE OF 4 ½". RUN A CBL IF NEEDED TO VERIFY TOC.
7. **PLUG #4, PROTECT MAHOGANY (~1849'):** SET A CEMENT BALANCED PLUG FROM 1949' - 1739 (210' COVERAGE) WITH (16 SXS / 18.3 CUFT / 3.3 BBL).
8. **PLUG #5, PROTECT TOP OF BIRD'S NEST (~1293') & GREEN RIVER (1007'):** PUH TO 1393'. SET A CEMENT BALANCED PLUG FROM 1393' - 894 (499' COVERAGE) WITH (38 SXS / 43.5 CUFT / 7.8 BBL).
9. **PLUG #6, FILL SURFACE HOLE & ANNULUS:** POOH. PERF CASING @ 255' AND PUMP 75 SXS / 86 CUFT / 15.3 BBL / OR SUFFICIENT VOLUME TO FILL 4 ½" CASING AND 4.5" X 8.625" ANNULUS F/ 280' TO SURFACE.
10. CUT OFF WELLHEAD AND INSTALL MARKER PER REGULATIONS.
11. RDMO. TURN OVER TO OPERATIONS FOR SURFACE REHAB. SURFACE RECLAMATION TO BE PERFORMED IN ACCORDANCE TO REGULATIONS

RBM 3/30/15

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> U-01197-A-ST
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 367
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<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 6/9/2015	<input type="checkbox"/> SPUD REPORT Date of Spud:	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Kerr-McGee Oil & Gas Onshore, LP has plugged and abandoned the NBU 367 well. Please see the operations summary report for details. Thank you.		
Accepted by the Utah Division of Oil, Gas and Mining <b>FOR RECORD ONLY</b> June 16, 2015		
<b>NAME (PLEASE PRINT)</b> Jennifer Thomas	<b>PHONE NUMBER</b> 720 929-6808	<b>TITLE</b> Regulatory Specialist
<b>SIGNATURE</b> N/A	<b>DATE</b> 6/16/2015	

**US ROCKIES REGION**  
**Operation Summary Report**

Well: NBU 367				Spud date: 4/10/2002					
Project: UTAH-UINTAH				Site: NBU 1022-11K PAD				Rig name no.: GWS 1/1	
Event: ABANDONMENT				Start date: 6/8/2015				End date: 6/9/2015	
Active datum: RKB @0.00usft (above Mean Sea Level)				UWI: NBU 367					
Date	Time Start-End		Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
6/1/2015	7:00 - 12:00		5.00		35		P		Drove to loc. Rigged up, RIH w/JDC to 6463, hitting tight spots @ 3700-4200', POOH. Well is dead and would not blow. RIH w/G-1 to 6373 was able to beat down to 6477, POOH, RIH w/JDC to 6477, POOH. RIH w/Impression block to 6477' POOH. RIH w/Sample Baler to 6477', POOH. Sample Baler had a lt of scale and some rubber pieces. Not able to pull plunger or spring. Rigged down, traveled to yard.
									FLUID LEVEL 3650 SEAT NIPPLE DEPTH 6474
									SN TYPE TD (Max Depth)
6/5/2015	7:00 - 7:15		0.25	ABANDP	48		P		SAFETY= JSA.
	7:15 - 11:00		3.75	ABANDP	30	A	P		RDMO NBU 1022-11B4BS. MIRU. SPOT IN ALL EQUIP.
	11:00 - 12:00		1.00	ABANDP	30	E	P		SICP= 950#. SITP= 950#. BLOW DOWN TBNG & CSNG TO FLAT TANK. CNTRL TBNG W/ 30BBLS TMAC. CAUGHT PRESSURE BUT PRESSURE BLED OFF QUICKLY. TBNG RESTRICTED BUT NOT PLUGGED SOLID.
	12:00 - 13:00		1.00	ABANDP	30	F	P		NDWH. UN-LAND TBNG TO MAKE SURE NOT STUCK (GOOD). LAND TBG BACK ON HANGER. NUBOP. FUNCTION TEST GOOD. R/U FLOOR & TBNG EQUIP. UN-LAND TBNG. COULD NOT REMOVE HANGER (GAULDED) SO L/D FIRST JT AS BAD.
	13:00 - 15:00		2.00	ABANDP	31	I	P		MIRU SCANNERS. POOH WHILE SCANNING 203JTS 2-3/8" J-55 TBNG. SCAN RESULTS AS FOLLOWS:\n\n170JTS Y-BND\n14JTS B-BND\n19JTS R-BND. BOTTOM 19JTS IN THE WELLBORE. HEAVY INTERNAL & EXTERNAL PITTING. HOLES FOUND IN JT# 201,202 & 203. RECOVERED PLUNGER & SPRING. MODERATE EXT SCALE ON LAST 14JTS.\n\nRDMO SCANNER.
	15:00 - 16:30		1.50	ABANDP	34	I	P		MIRU WIRELINE. P/U & RIH W/ 3.60" GR-JB TO 6200'. POOH & L/D GR-JB. P/U & RIH W/ HAL 10K CIBP. SET CIBP @ 6180'. POOH W/ TOOLS. RDMO WIRELINE. SWIFWE. LOCK RAMS. SDFWE.
6/8/2015	7:00 - 7:30		0.50	ABANDP	48		P		HSM, TRIPPING TBG F/ DERICK
	7:30 - 12:30		5.00	ABANDP	51	D	P		SICP 0, RIH W/ N/C & 184 JTS 23/8 J-55 F/ DERICK, PU 11 JTS 23/9 P-110, TAG CIBP @ 6180', FRU PROPETRO FILL HOLE W/ 56 BBLS T-MAC, TEST CSG TO 500 PSI OK, PUMPED 5 BBLS FRESH WTR, 10 SKS G 15.8# 1.15 YEILD CMT, 1.9 BBLS FRESH WTR, DISPL W/ 18 BBLS T-MAC, L/D 11 JTS 23/8 P-110, 54 JTS 23/8 J-55 EOT @ 4120' PUMPED 5 BBLS FRESH WTR, 8.4 BBLS 41 SKS 15.8 1.15 YEILD, 1.9 BBLS FRESH WTR, DISPL W/ 9.5 BBLS T-MAC, L/D 45 JTS EOT @ 2695' 85 JTS IN 99 OUT, PUMPED 5 BBLS FRESH WTR, 3.3 BBLS 16 SKS 15.8 # 1.15 YEILD CMT, 1.9 BBLS FRESH, 5 BBLS DISPL, L/D 10 JTS REV TBG, L/D 15 JTS POOH W/ 60 JTS.

## US ROCKIES REGION

## Operation Summary Report

Well: NBU 367

Spud date: 4/10/2002

Project: UTAH-UINTAH

Site: NBU 1022-11K PAD

Rig name no.: GWS 1/1

Event: ABANDONMENT

Start date: 6/8/2015

End date: 6/9/2015

Active datum: RKB @0.00usft (above Mean Sea Level)

UWI: NBU 367

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	12:30 - 13:00	0.50	ABANDP	34	H	P		RU CUTTERS RIH PERF @ 1950', POOH RD CUTTERS, FILL CSG W/ 4 BBLS BROKE @ 1100 PSI INJ RATE OF 2 BPM @ 800 PSI.
	13:00 - 16:00	3.00	ABANDP	31	I	P		PU RIH W/ 41/2 CICR & 60 JTS 23/8 J-55.SET CICR @ 1908', PUMP 2 BBLS FRESH WTR, 290 SKS 15.8 1.15 YEILD CMT, DISPL W/ 5.1 BBLS T-MAC, @ 2 BPM @ 870 PSI NO RETURNS UP SURFACE, STUNG OUT OF RETAINER DUMPED 11 SKS CMT ON TOP, L/D 16 JTS, POOH W/ 44 JTS & STINGER SWI SDFN.
6/9/2015	7:00 - 7:30	0.50	ABANDP	48		P		HSM, WORKING WITH WIRELINE.
	7:30 - 8:00	0.50	ABANDP	41	A	P		RU CUTTERS RAN CBL F/ 1768 TO SRFACE, LOOKED GOOD . RD CUTTERS.
	8:00 - 17:00	9.00	ABANDP	51	D	P		RIH W/ N/C & 44 JTS 23/8 J-55 EOT @ 1398'.RU PROPETRO, PUMP 2 BBLS FRESH WTR, 7.8 BBLS 38 SKS 15.8# 1.15 YEILD CMT, .8 BBLS FRESH WTR, DISPLACE W/ 1.5 BBLS T-MAC. L/D 44 JTS, RU CUTTERS RIH PERF CSG @ 255-56' 4 SPF, POOH RD WL. ND BOPS INSTALL TBG HANGER, RU PRO PETRO, FILL 4/12 & SURF W/ 21 BBLS, PUMPED 2 BBLS FRESH WTR, 45 BBLS, 150 SKS 15.8# 1.15 YEILD CMT GOOD RETURNS TO SURFACE, RIG DOWN RIG & MOVED OUT OF WAY, DIG AROUND & CUT OFF WELL HEAD TOPPED OFF W/ CMT, WELD ON PLATE. MOVED OF LOCATION.MOVED RIG @ EQUIP & SPOTTED @ NBU 921-26E1DS SDFN.